

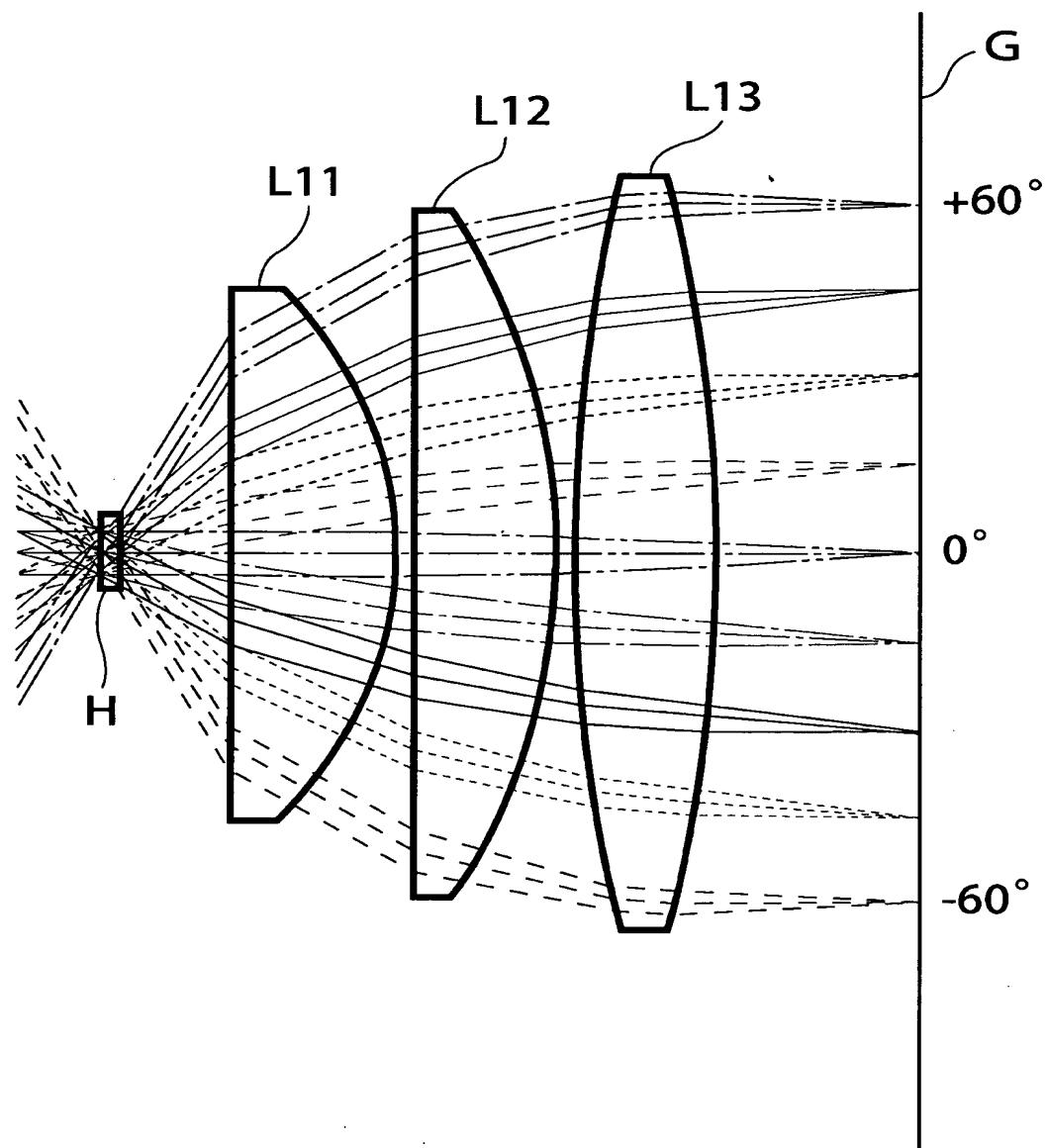
Fig. 1A

Fig. 1B

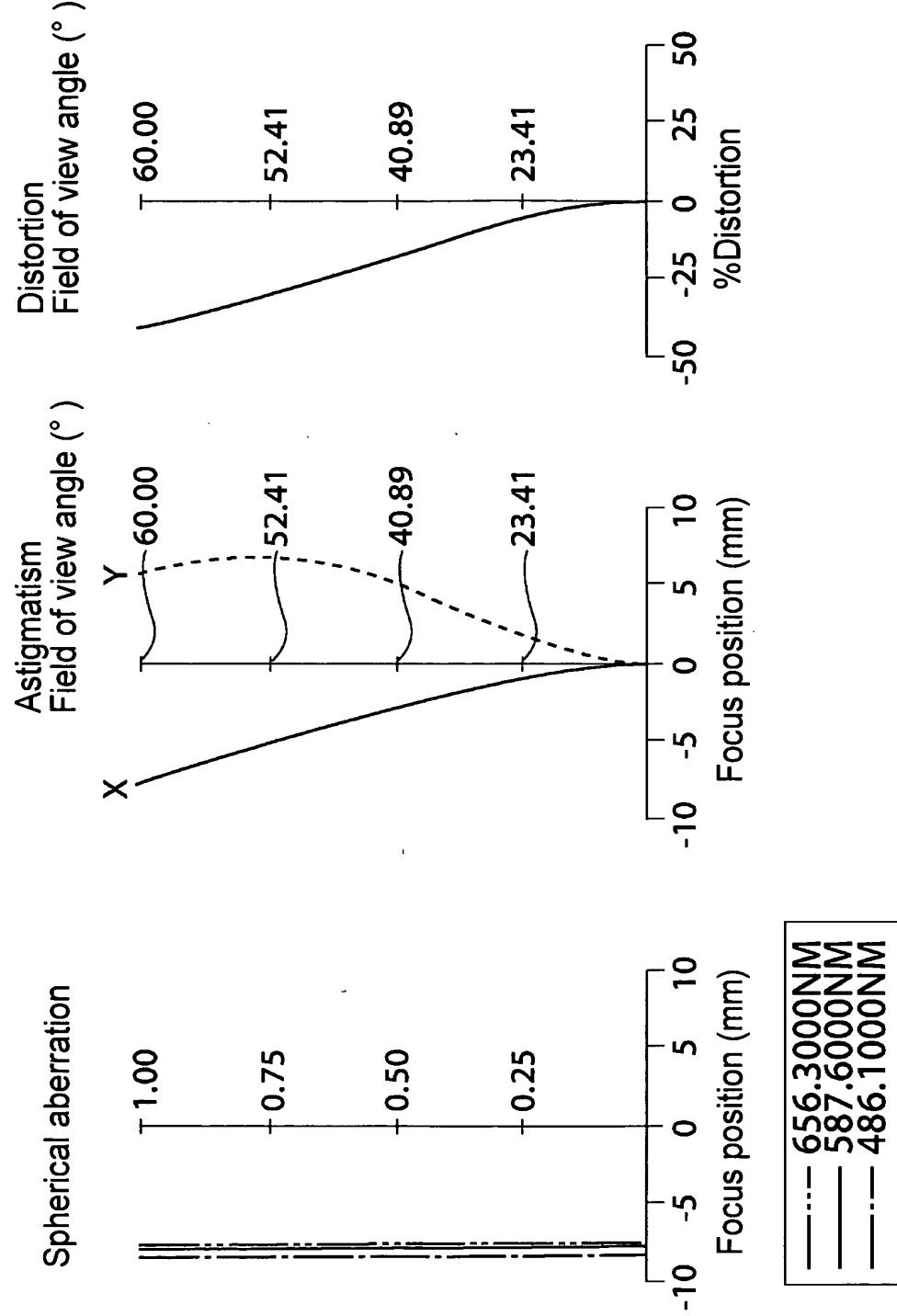


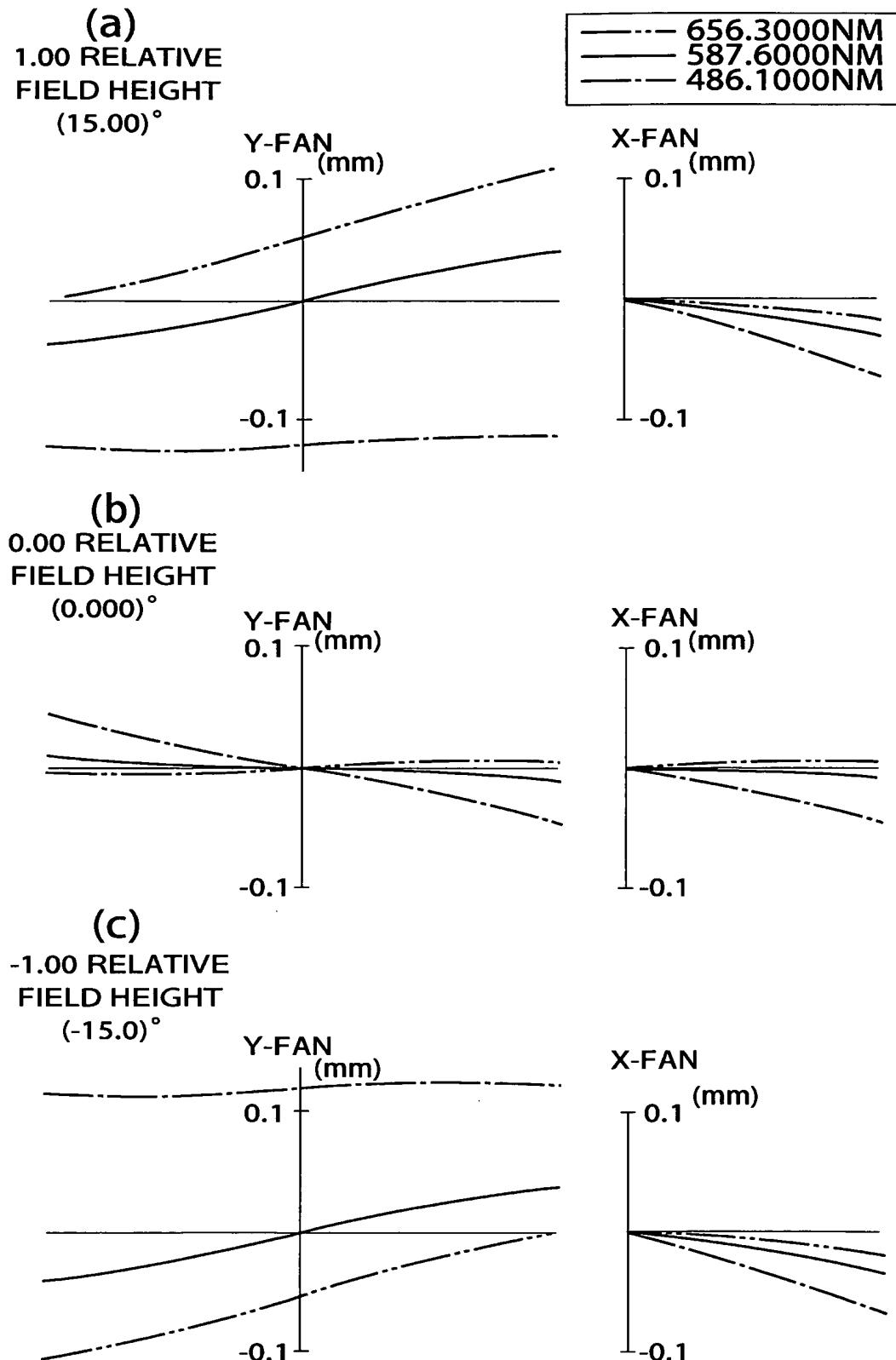
Fig. 1C

Fig. 2A

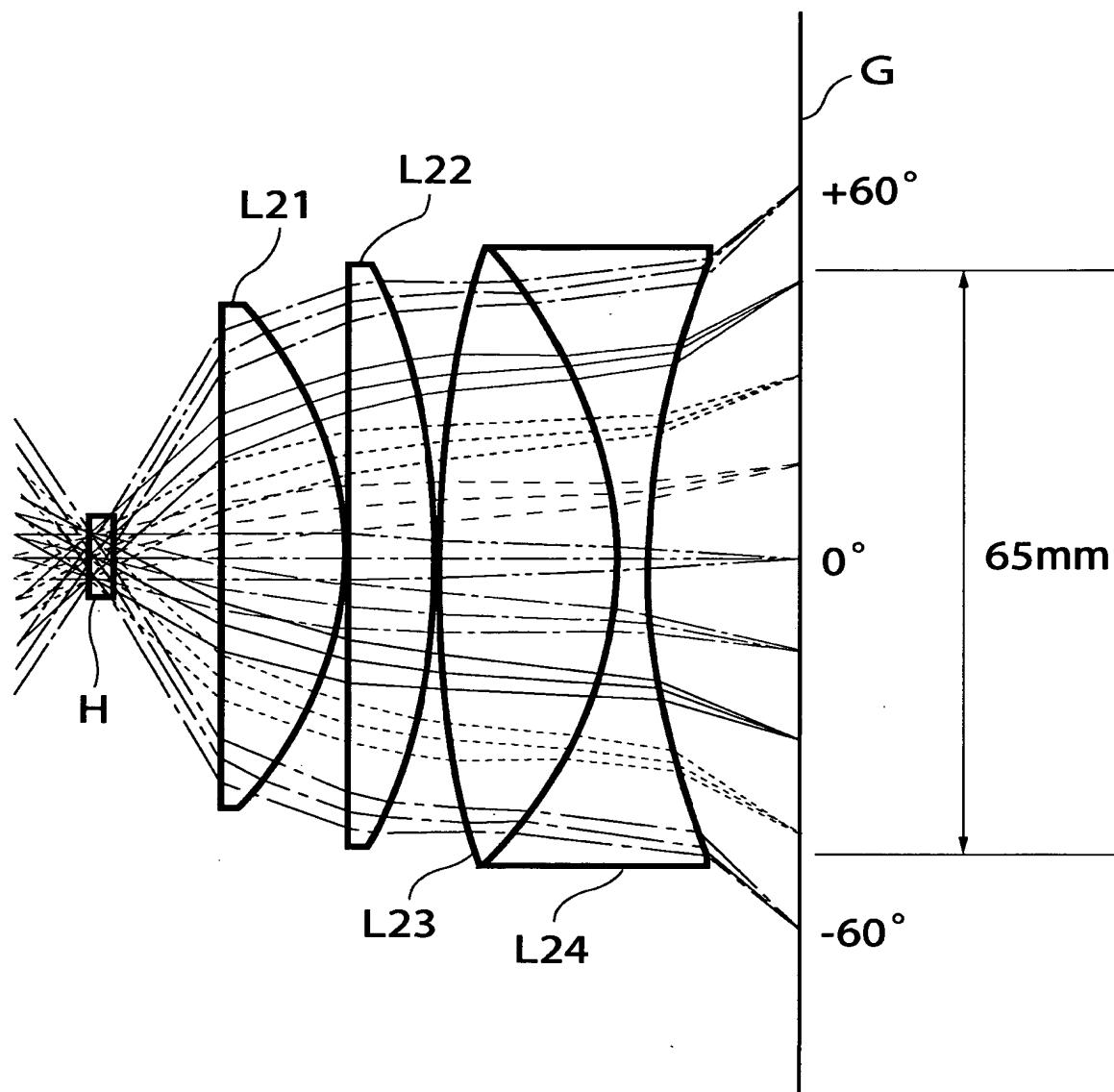


Fig. 2B

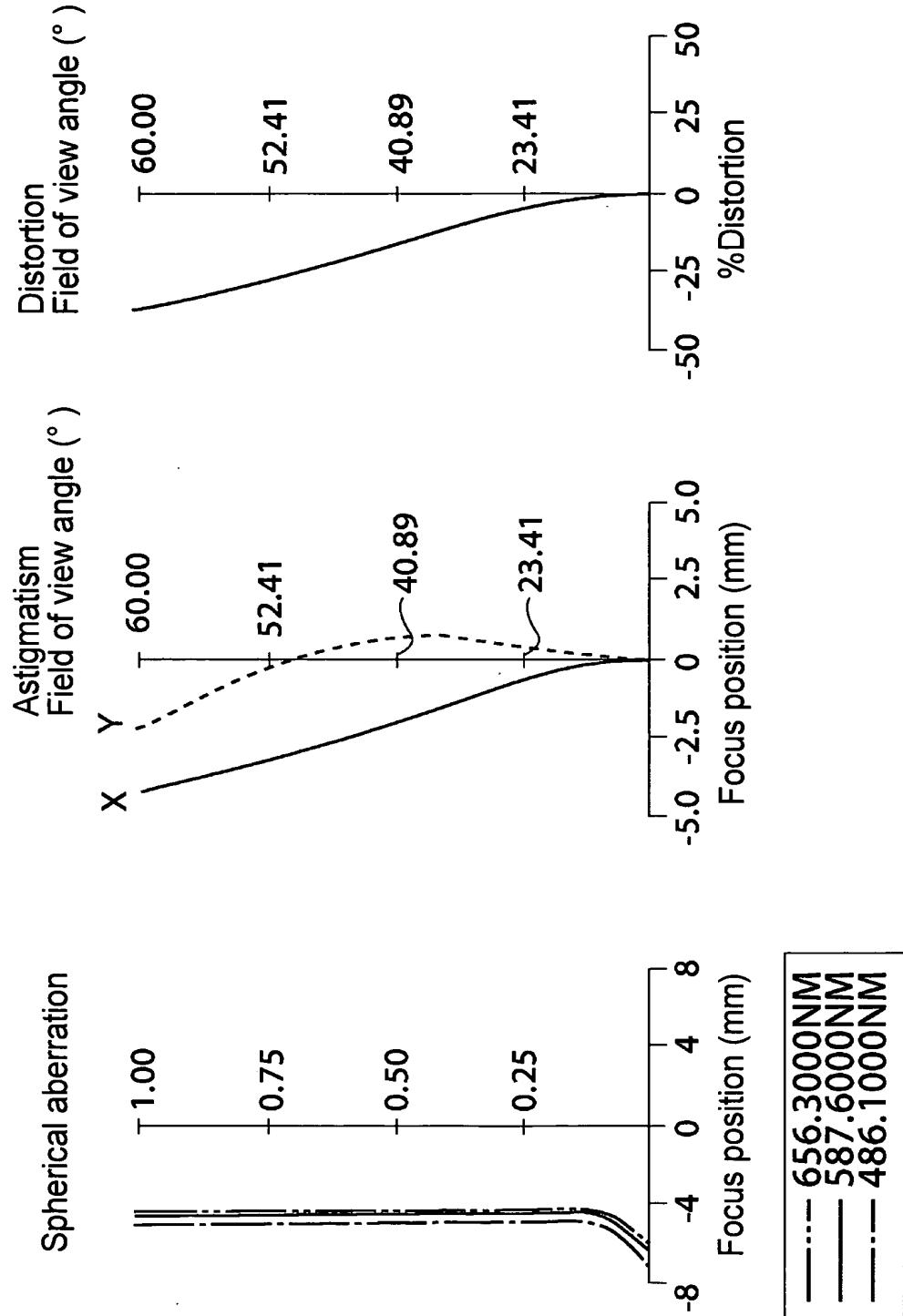


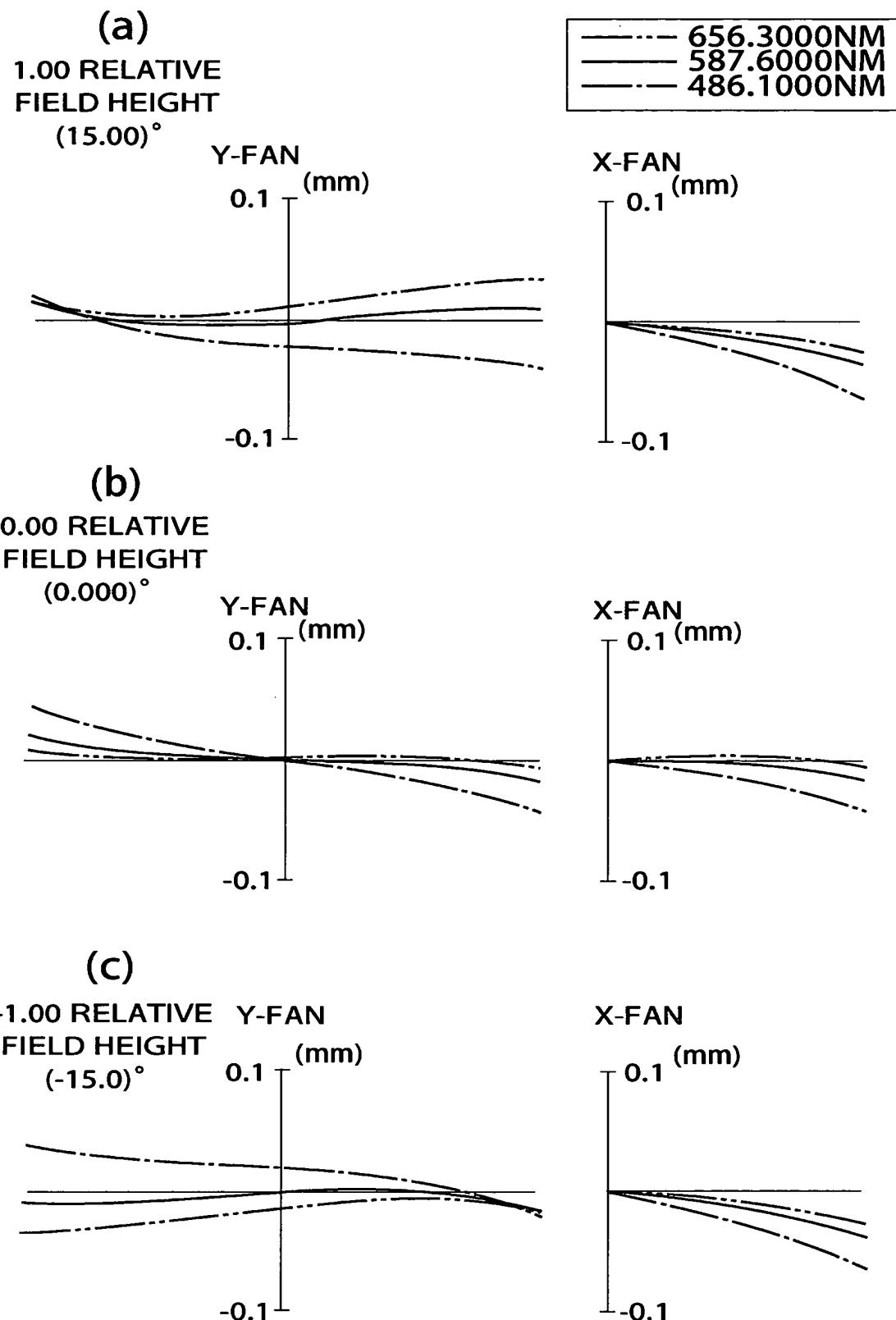
Fig. 2C

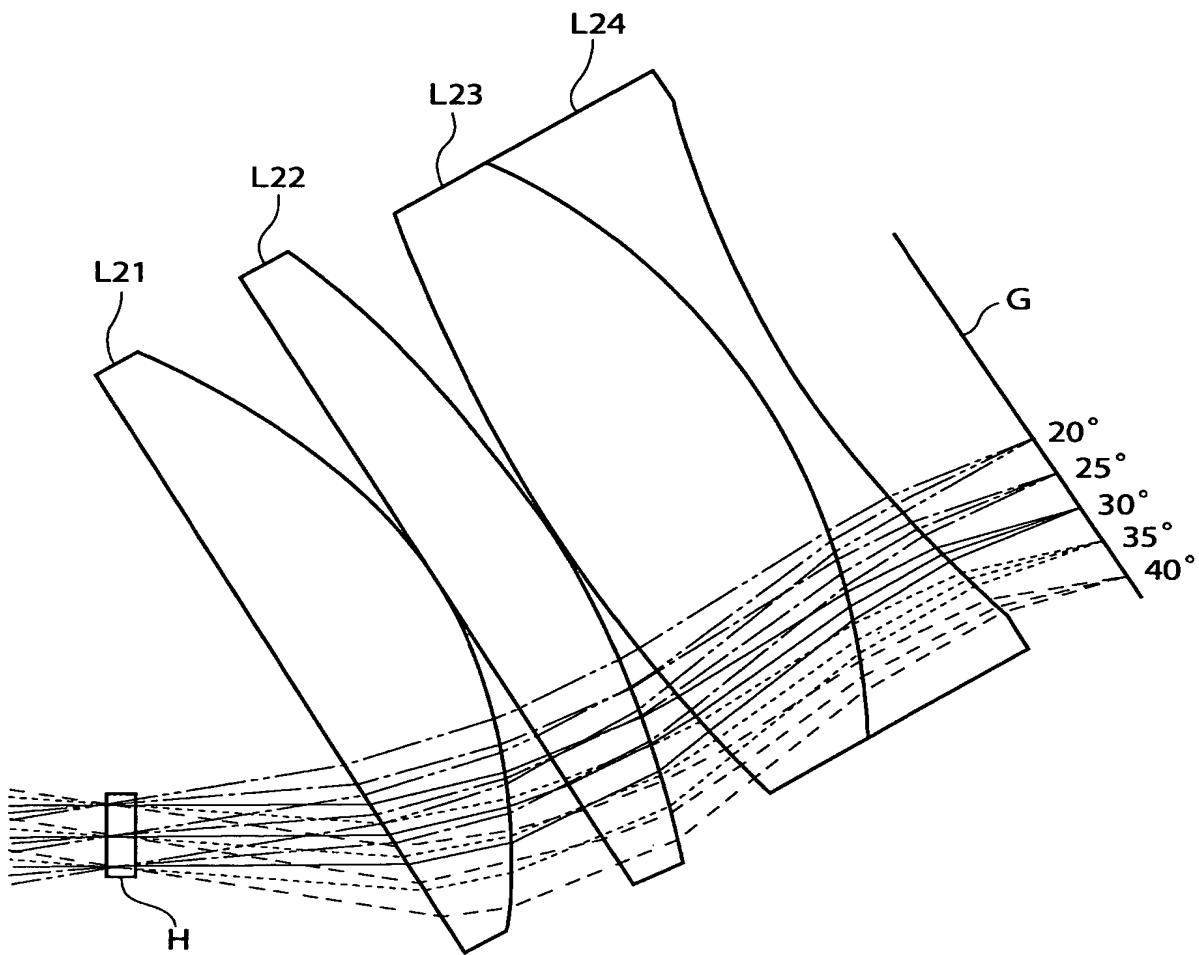
Fig. 2D

Fig. 2E

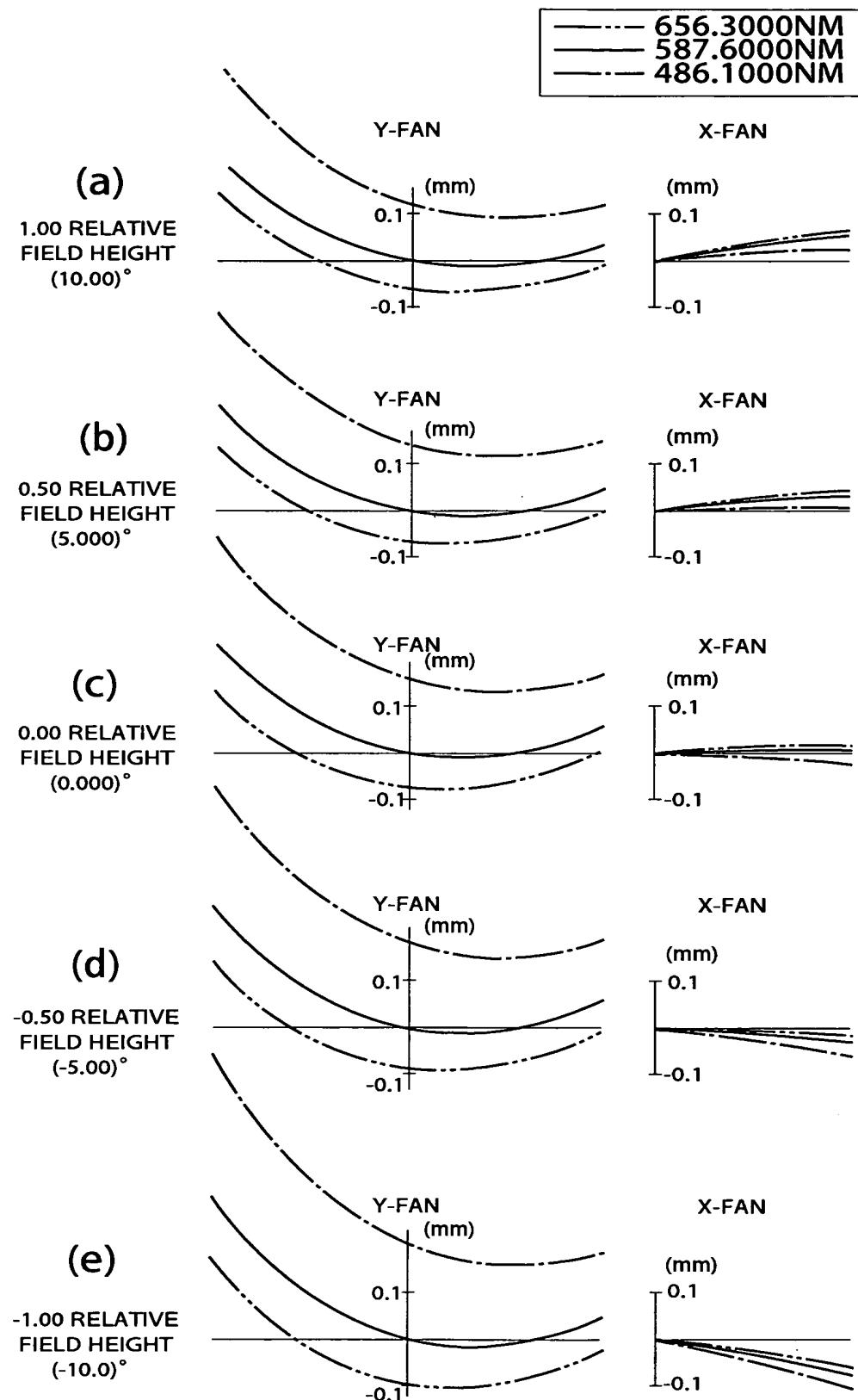


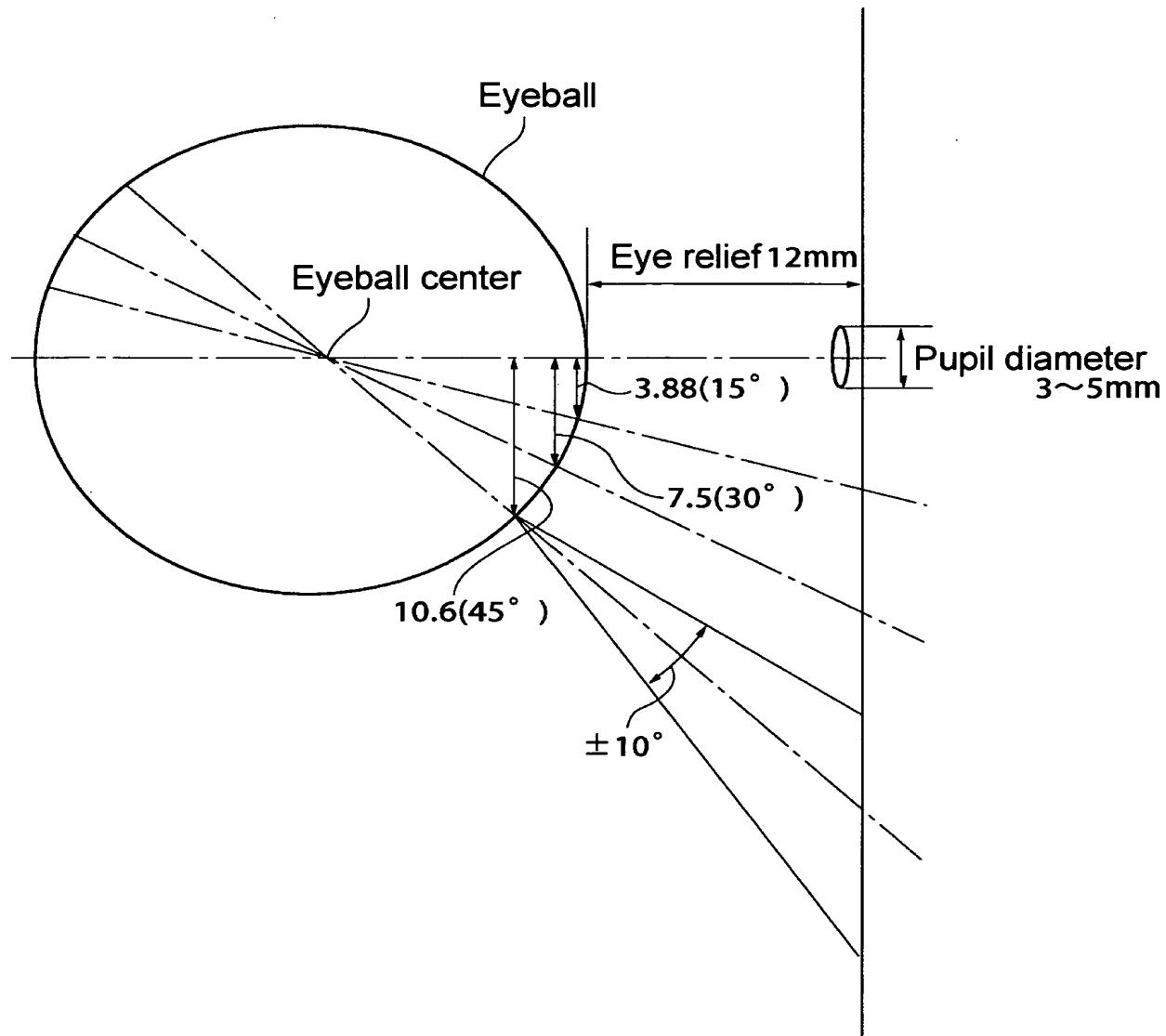
Fig. 3

Fig. 4A

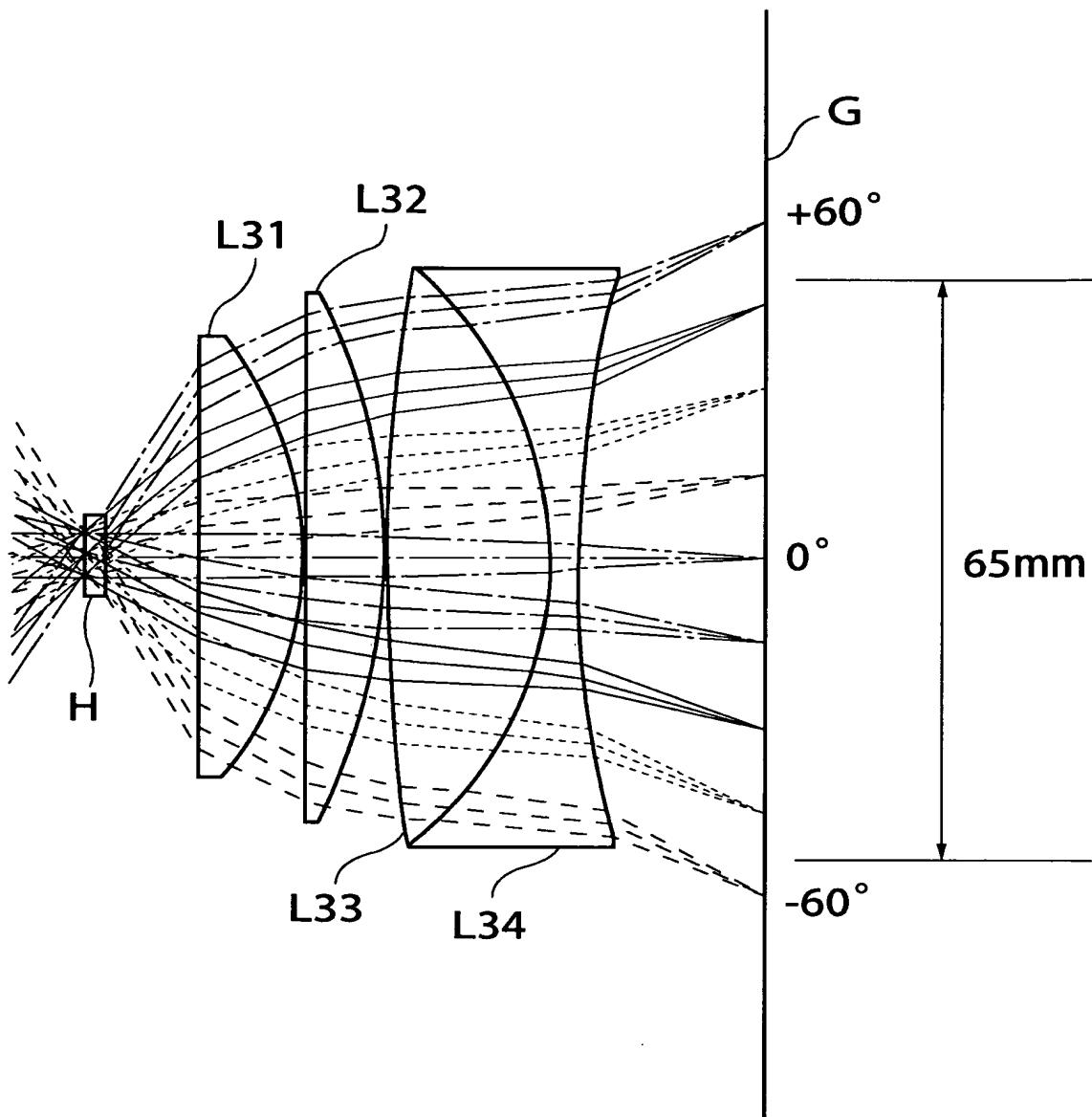


Fig. 4B

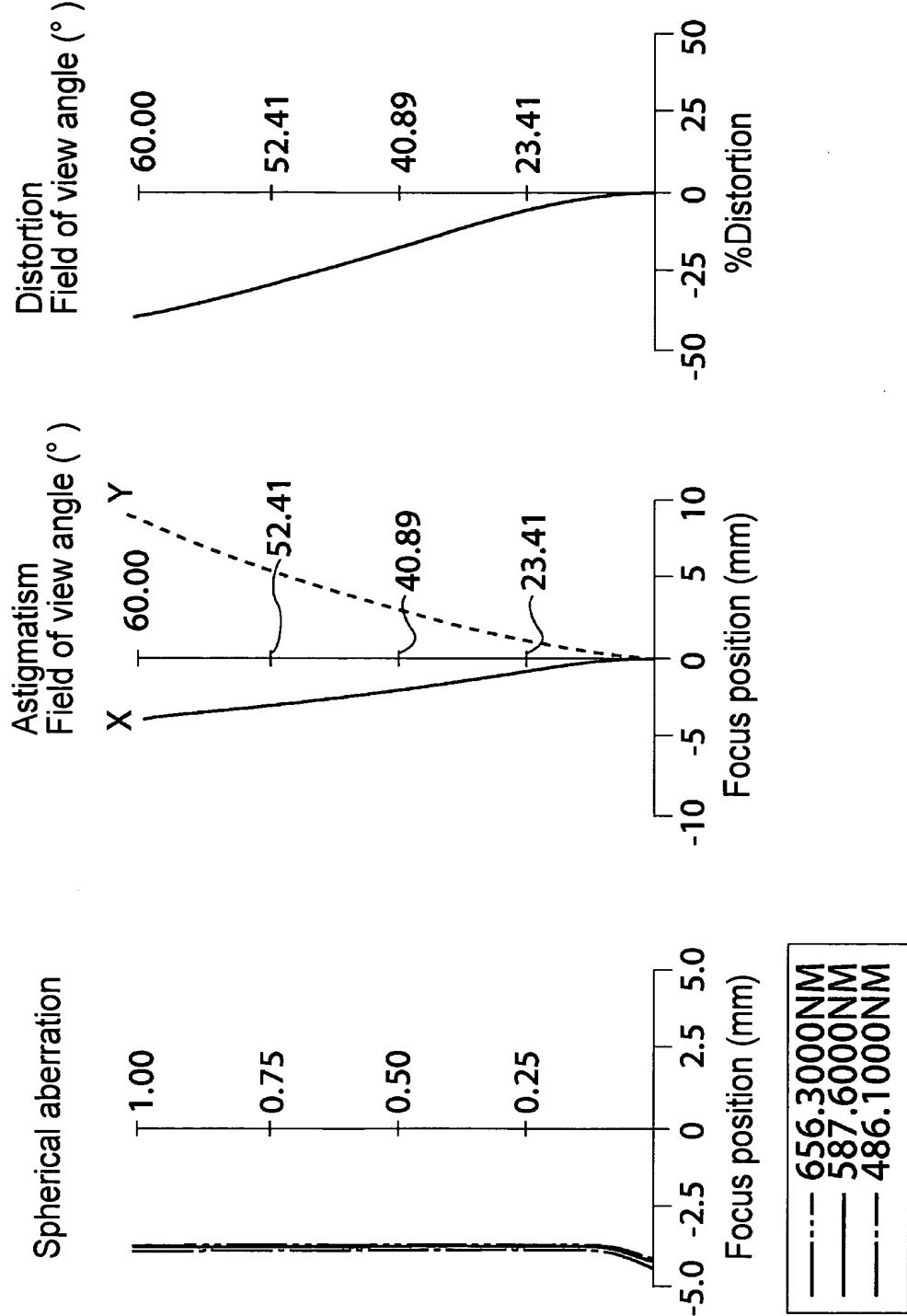


Fig. 4C

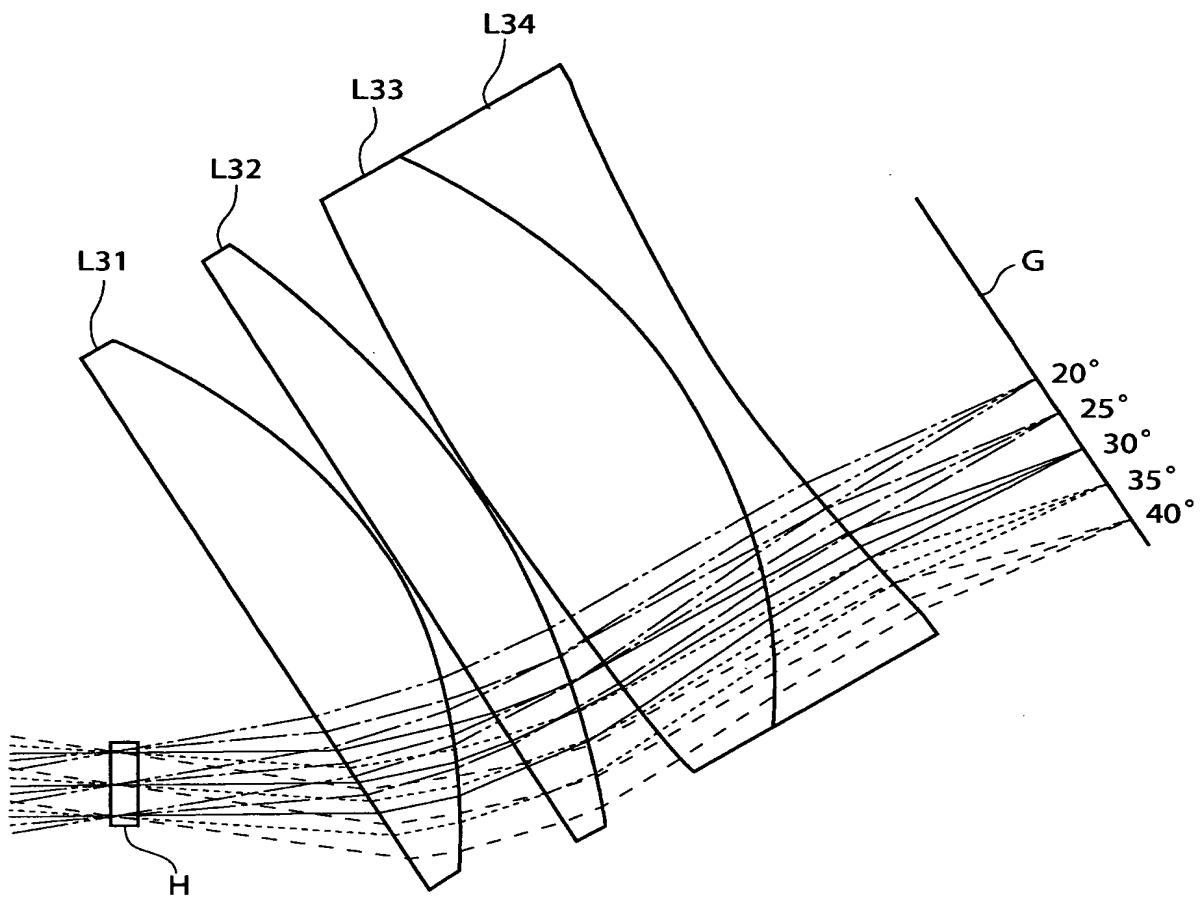


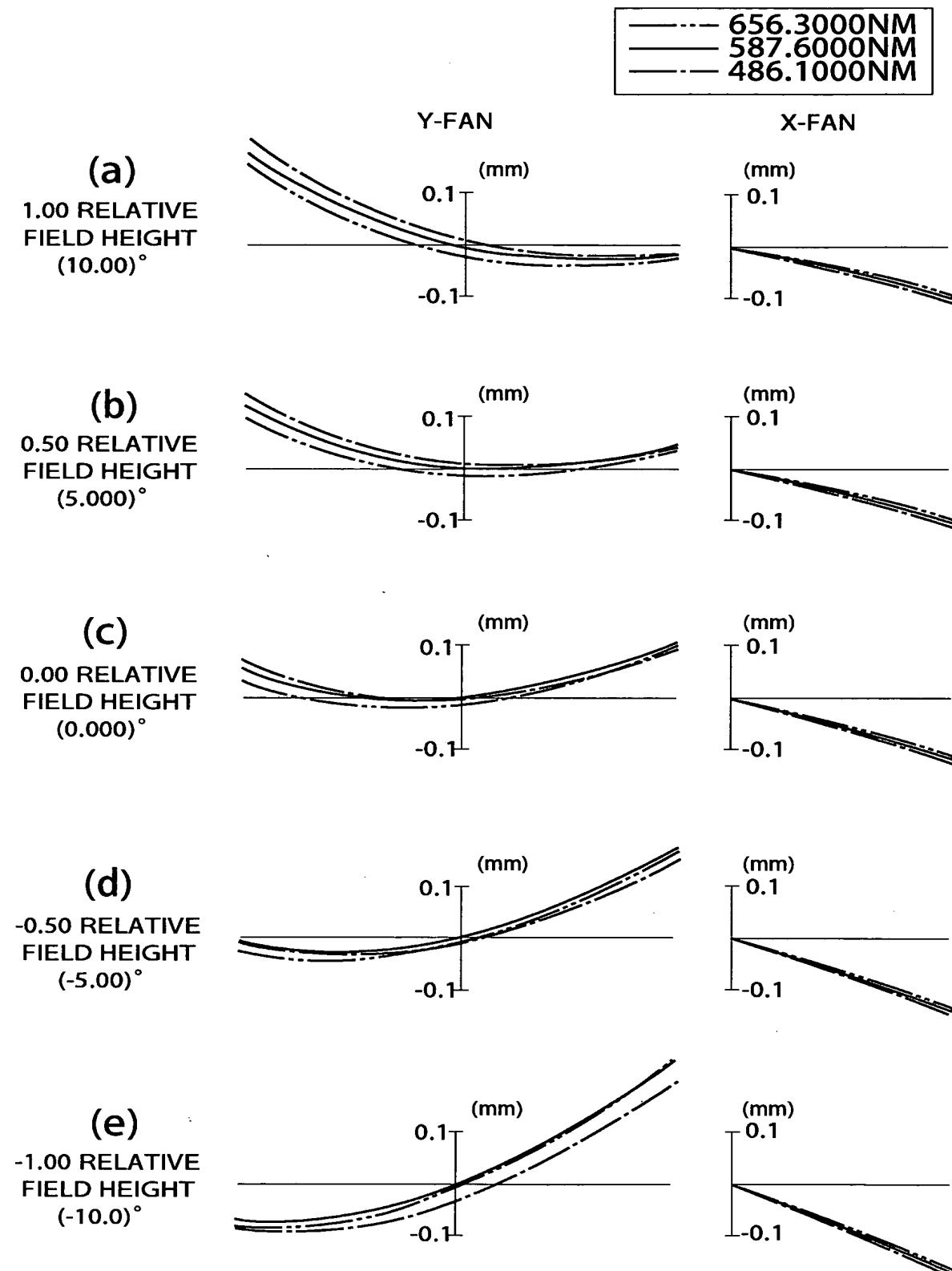
Fig. 4D

Fig. 5A

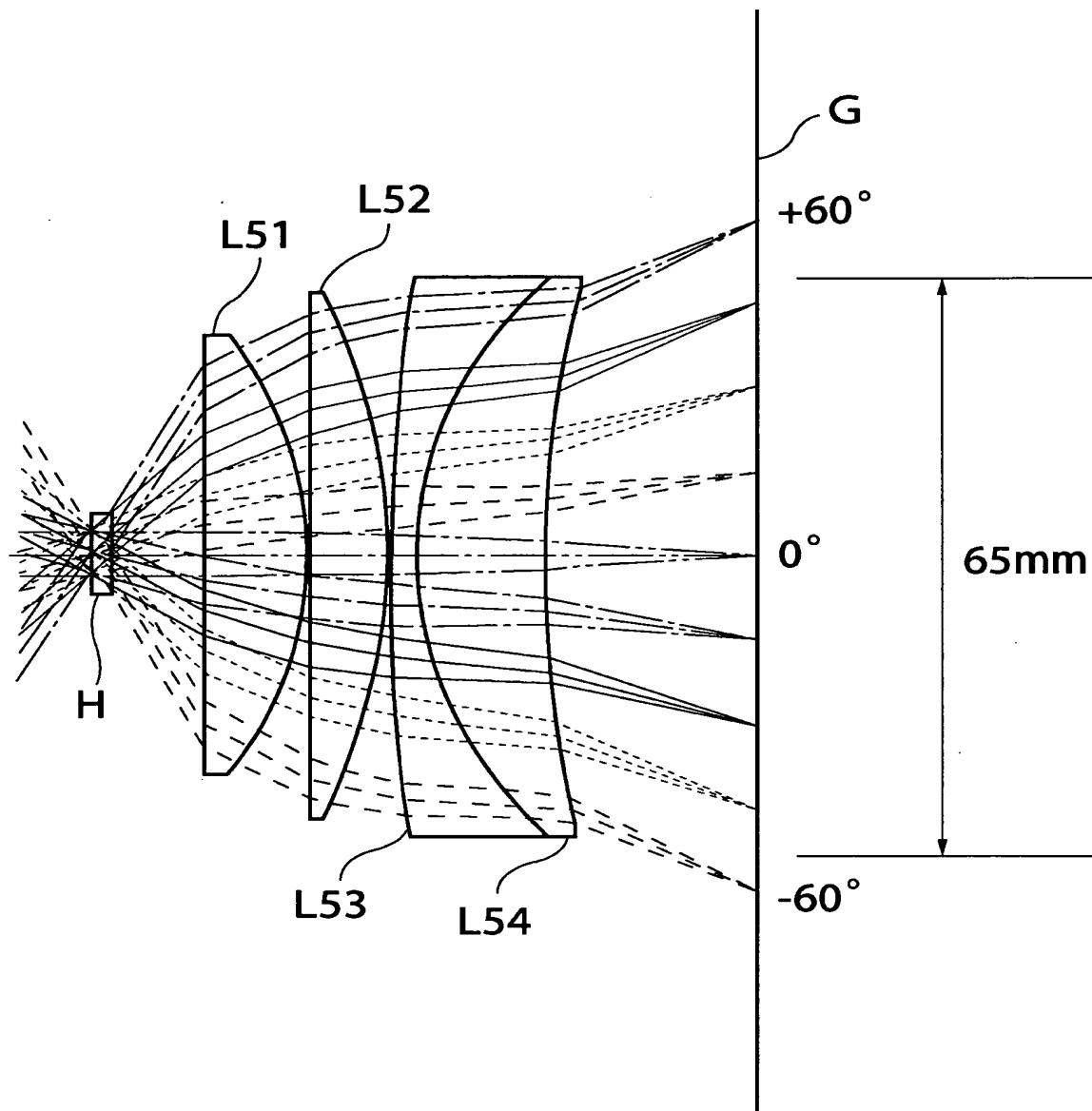


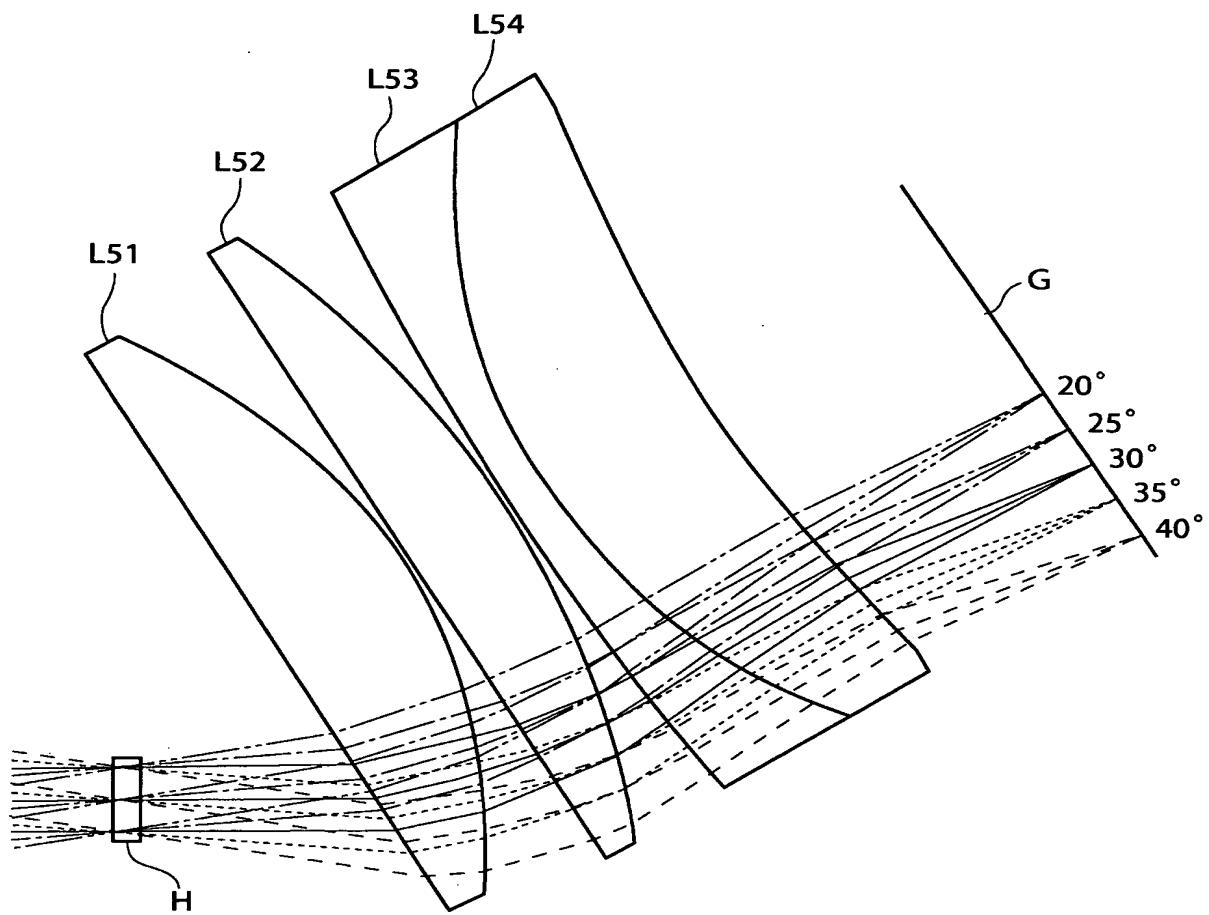
Fig. 5B

Fig. 5C

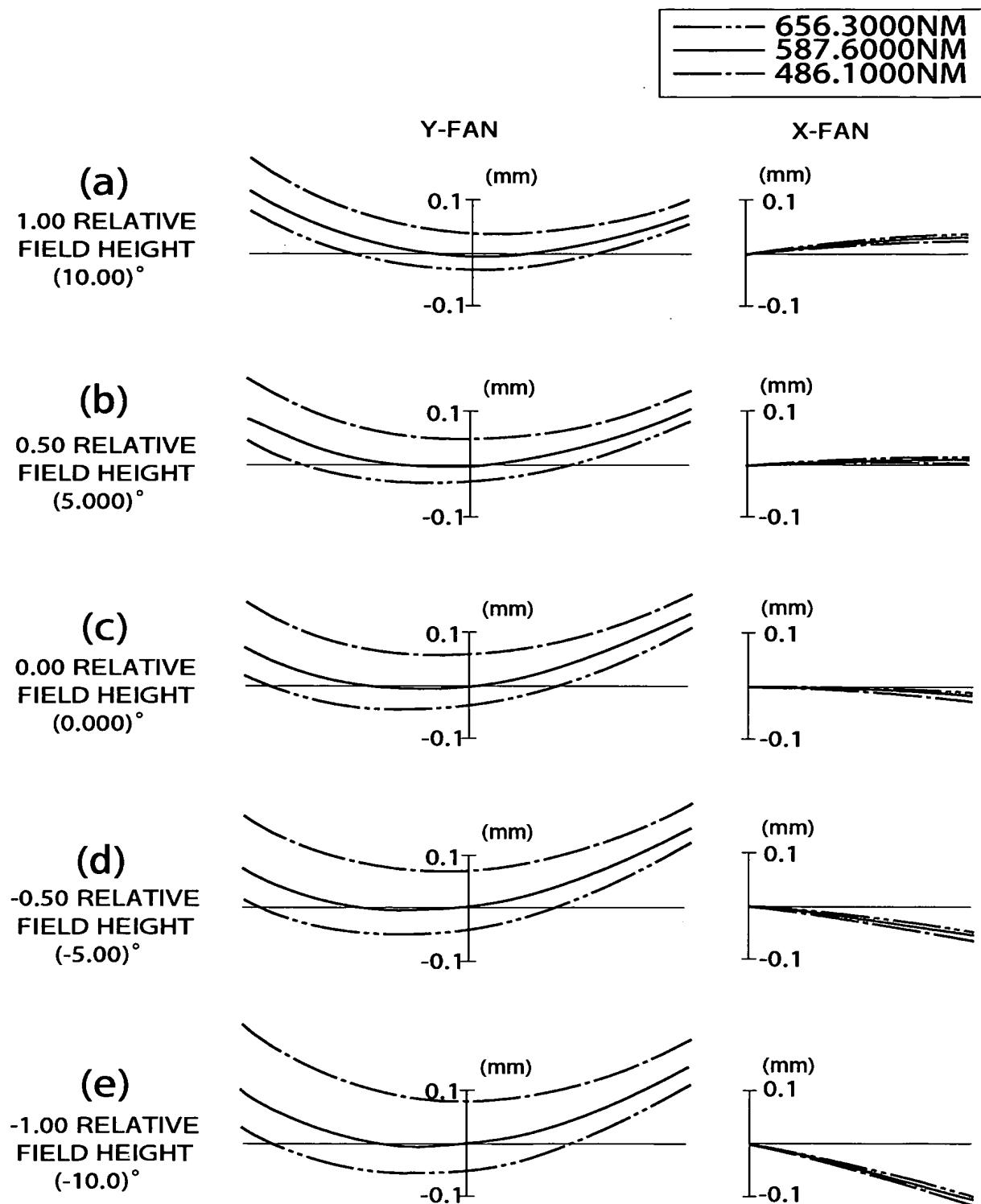


Fig. 6A

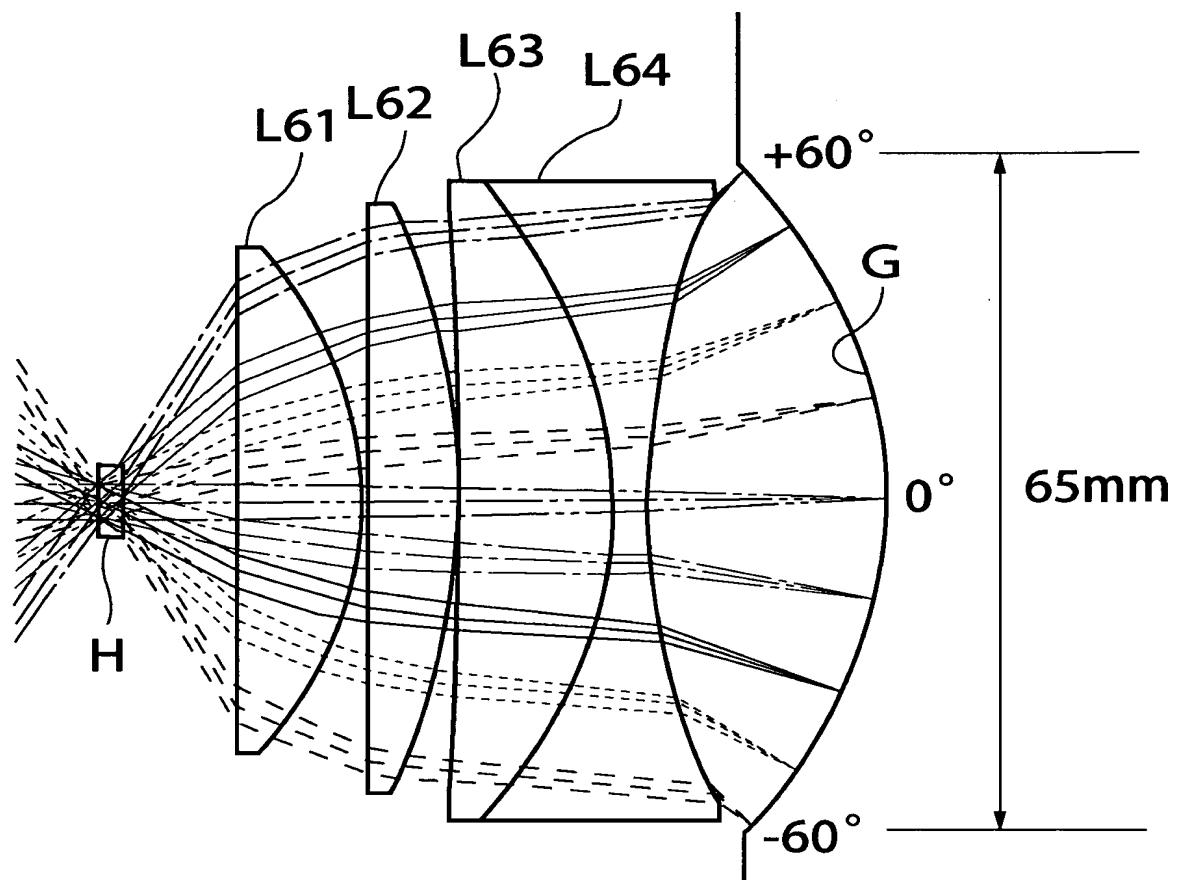


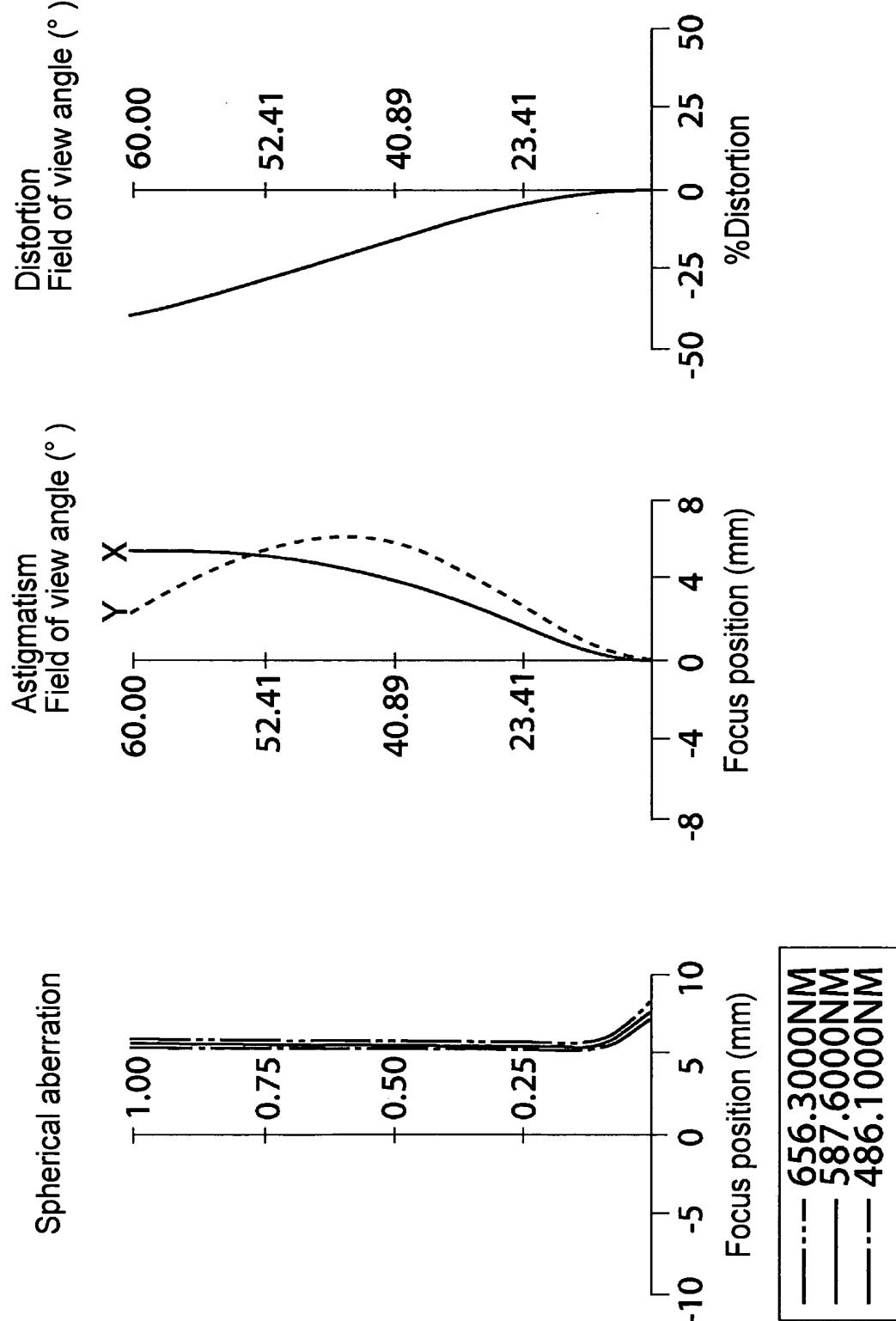
Fig. 6B

Fig. 6C

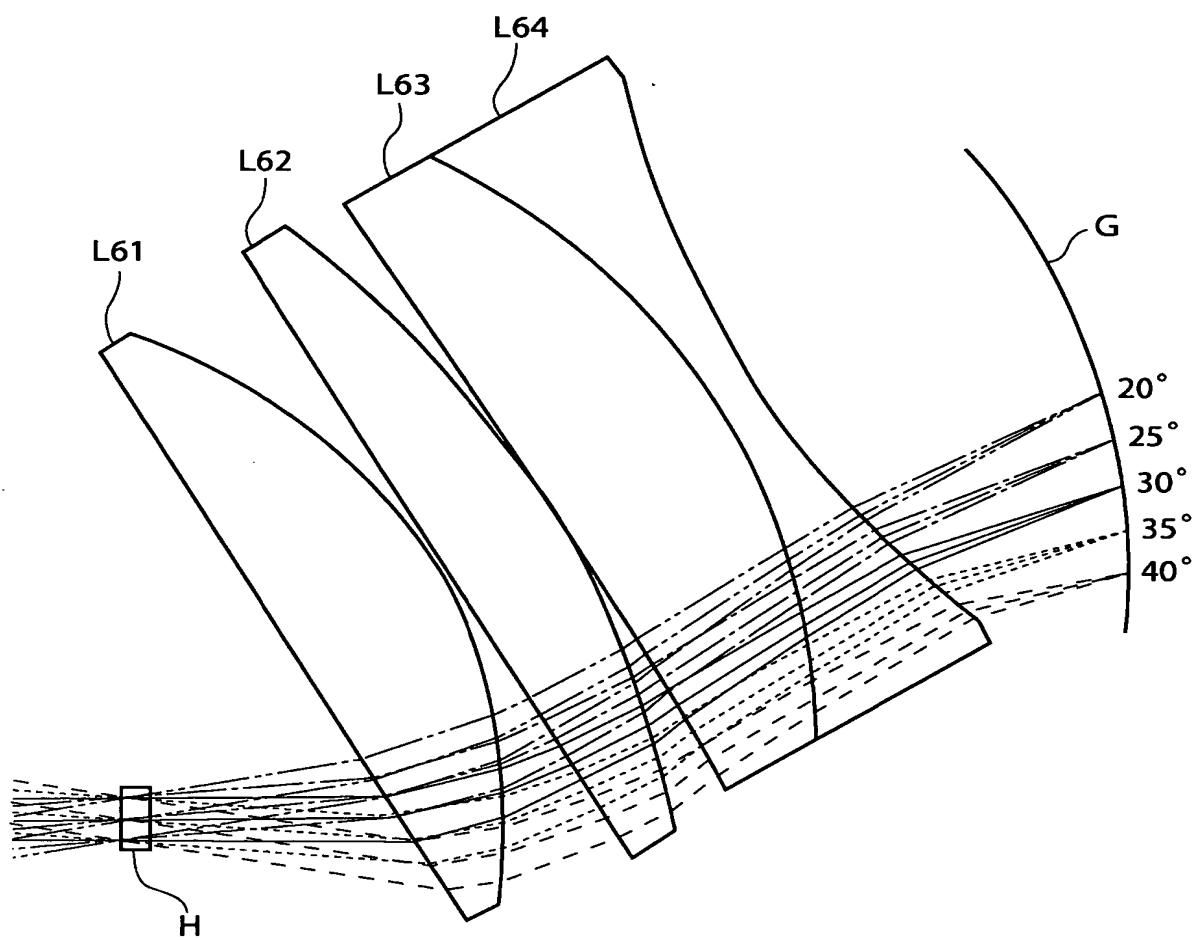


Fig. 6D

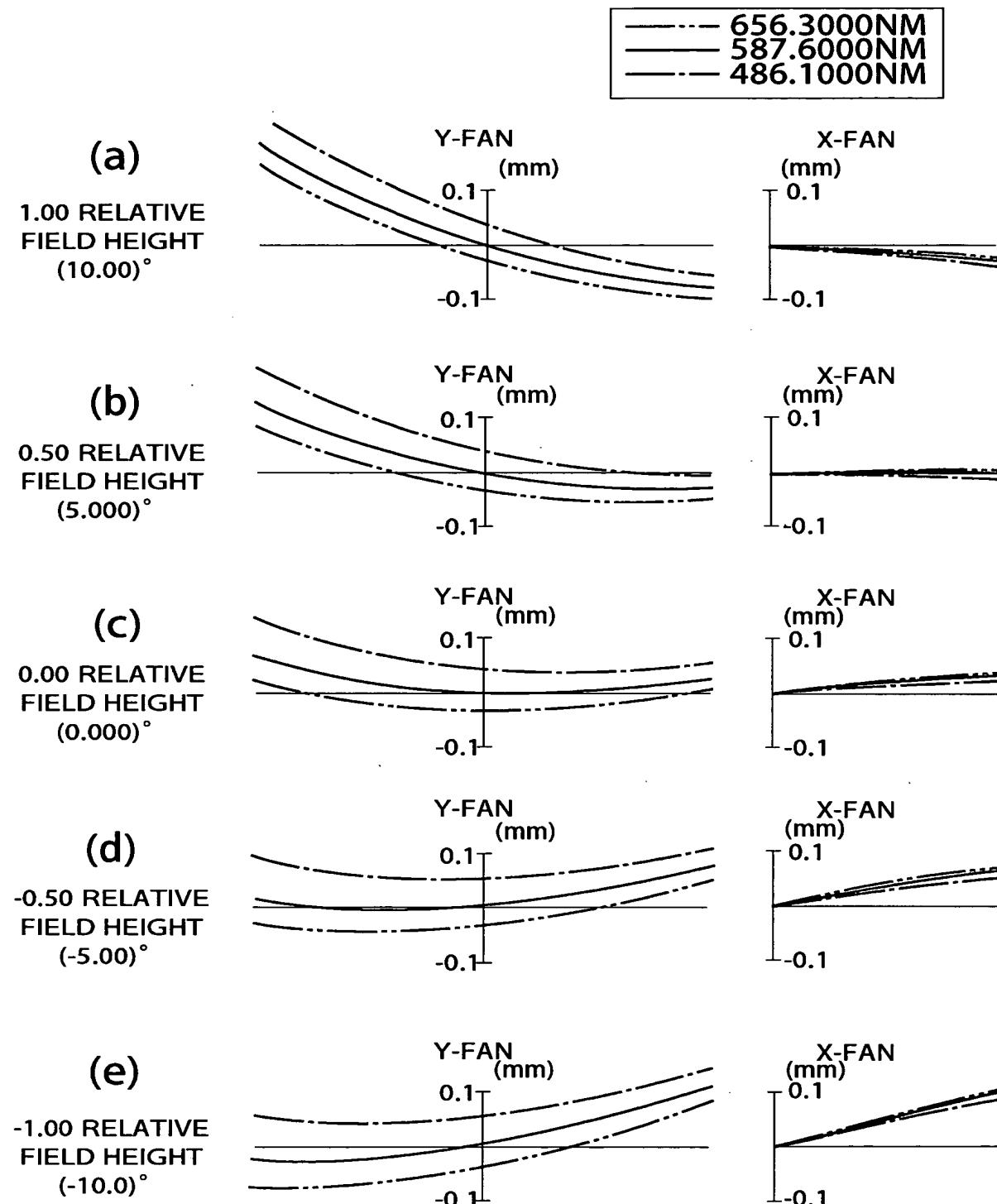


Fig. 7A

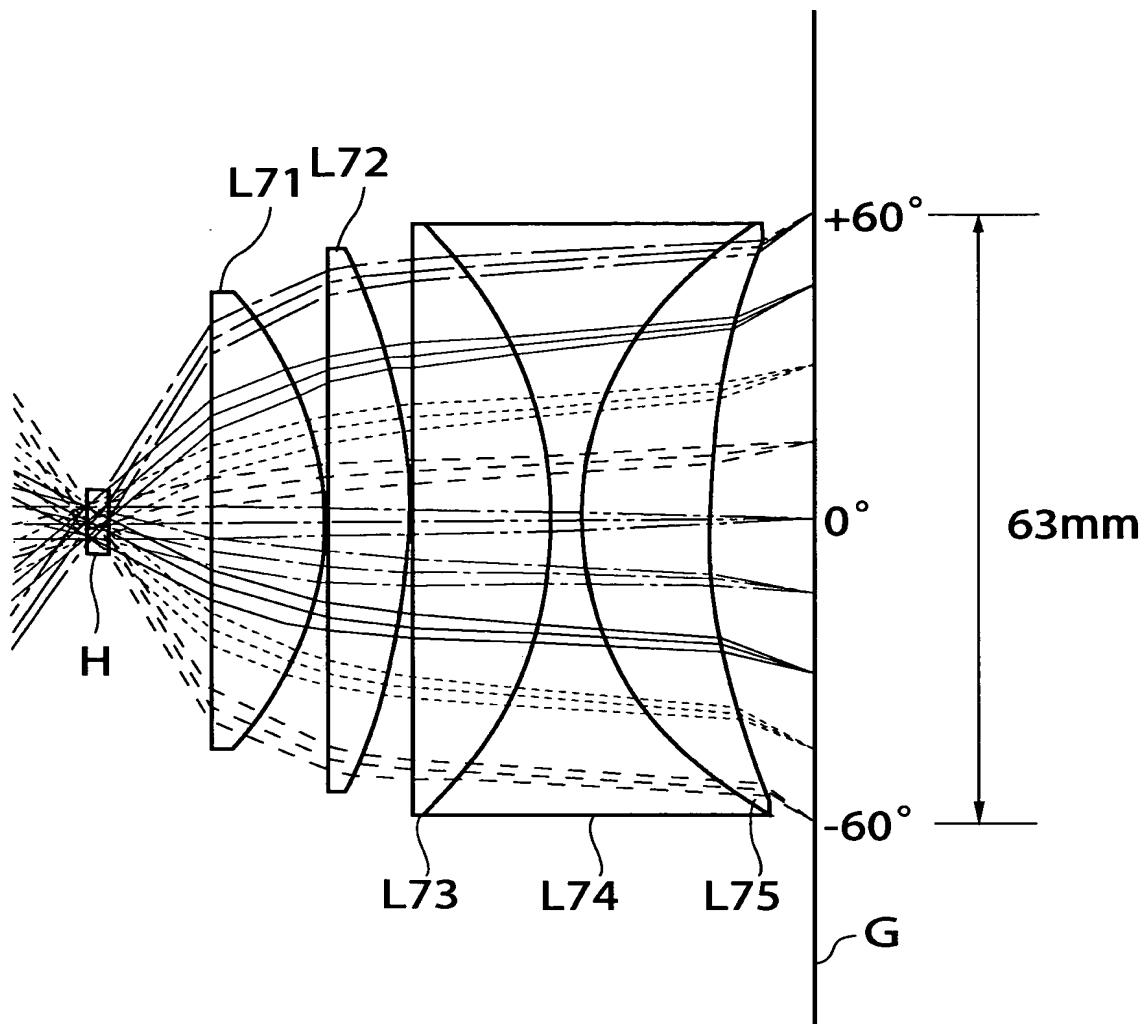


Fig. 7B

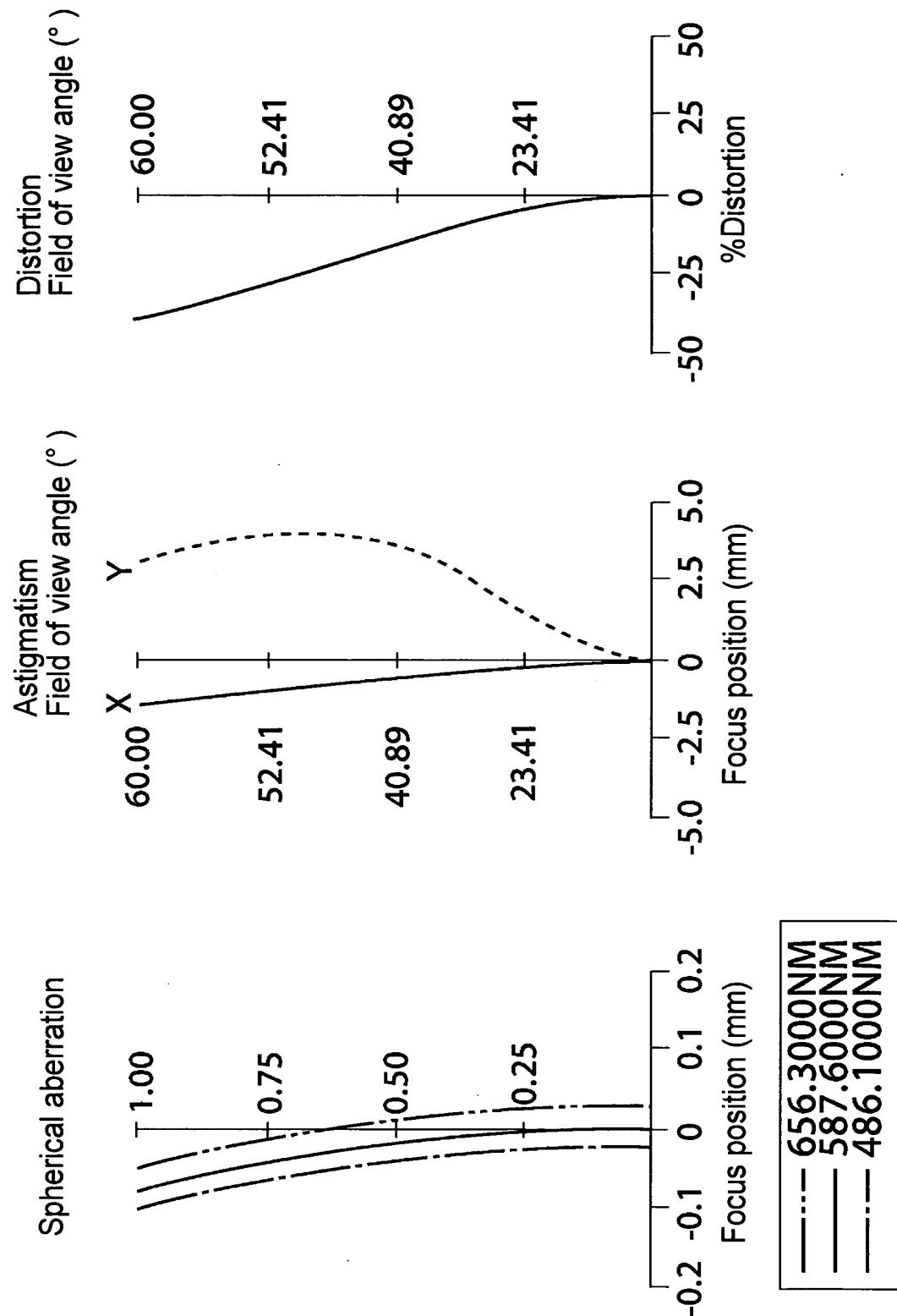


Fig. 7C

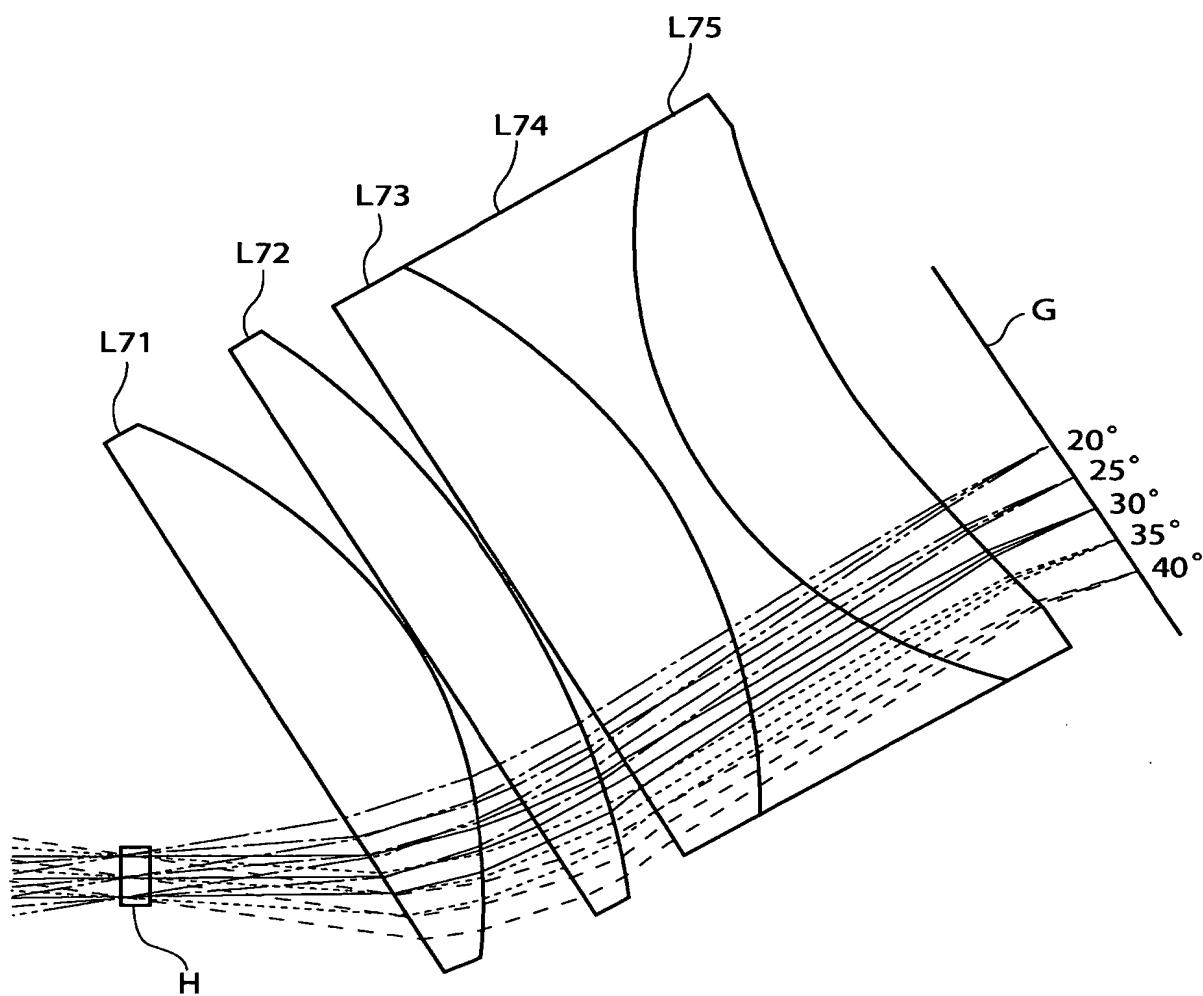


Fig. 7D

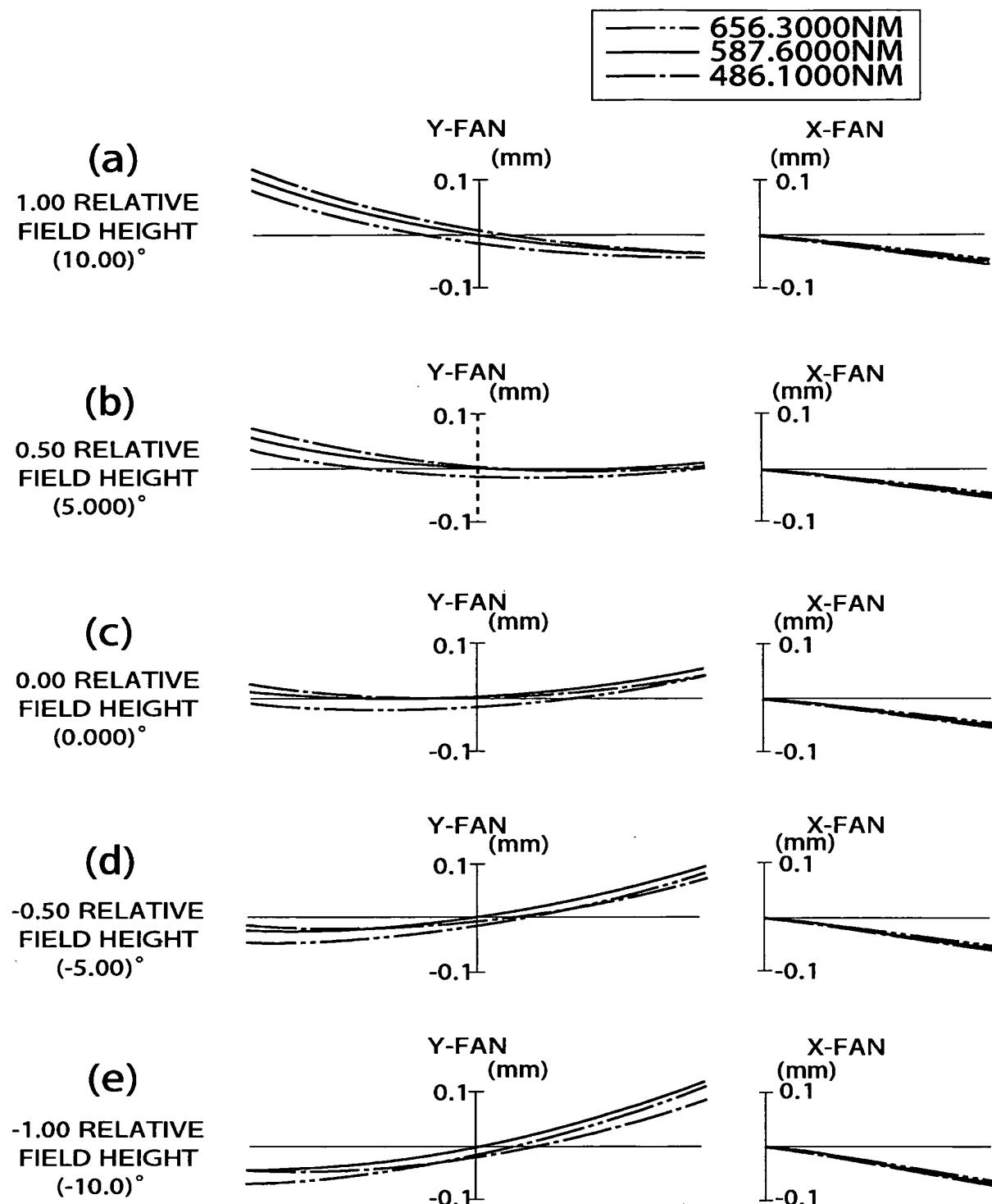
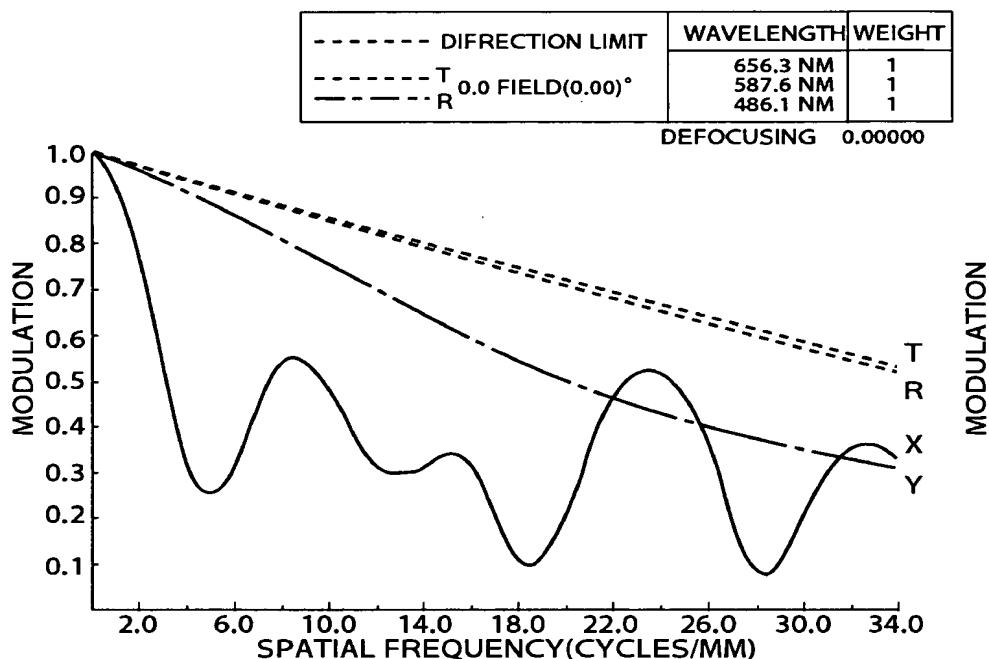


Fig. 7E

(a)



(b)

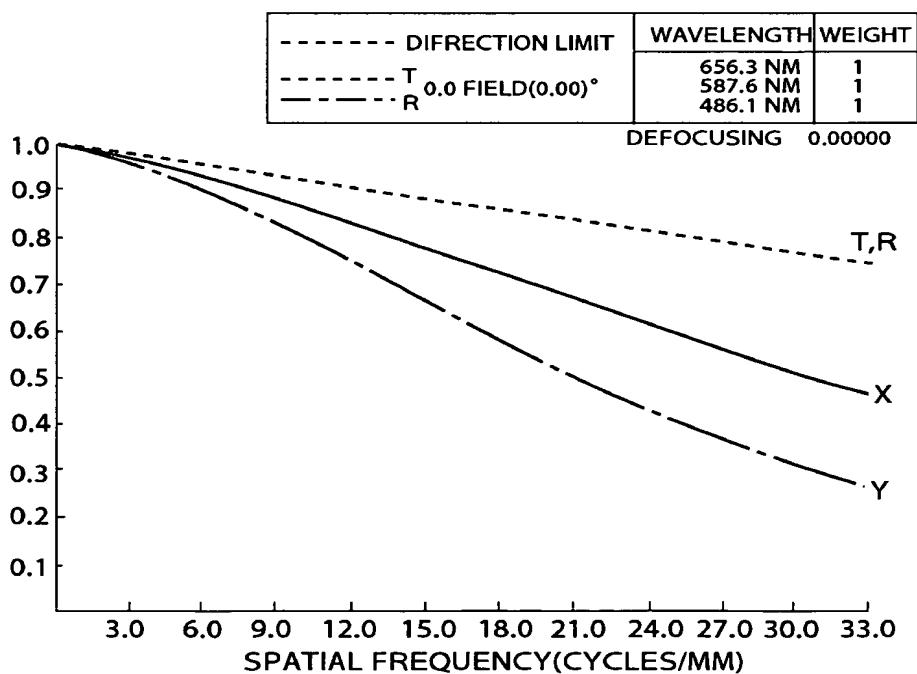


Fig. 7F

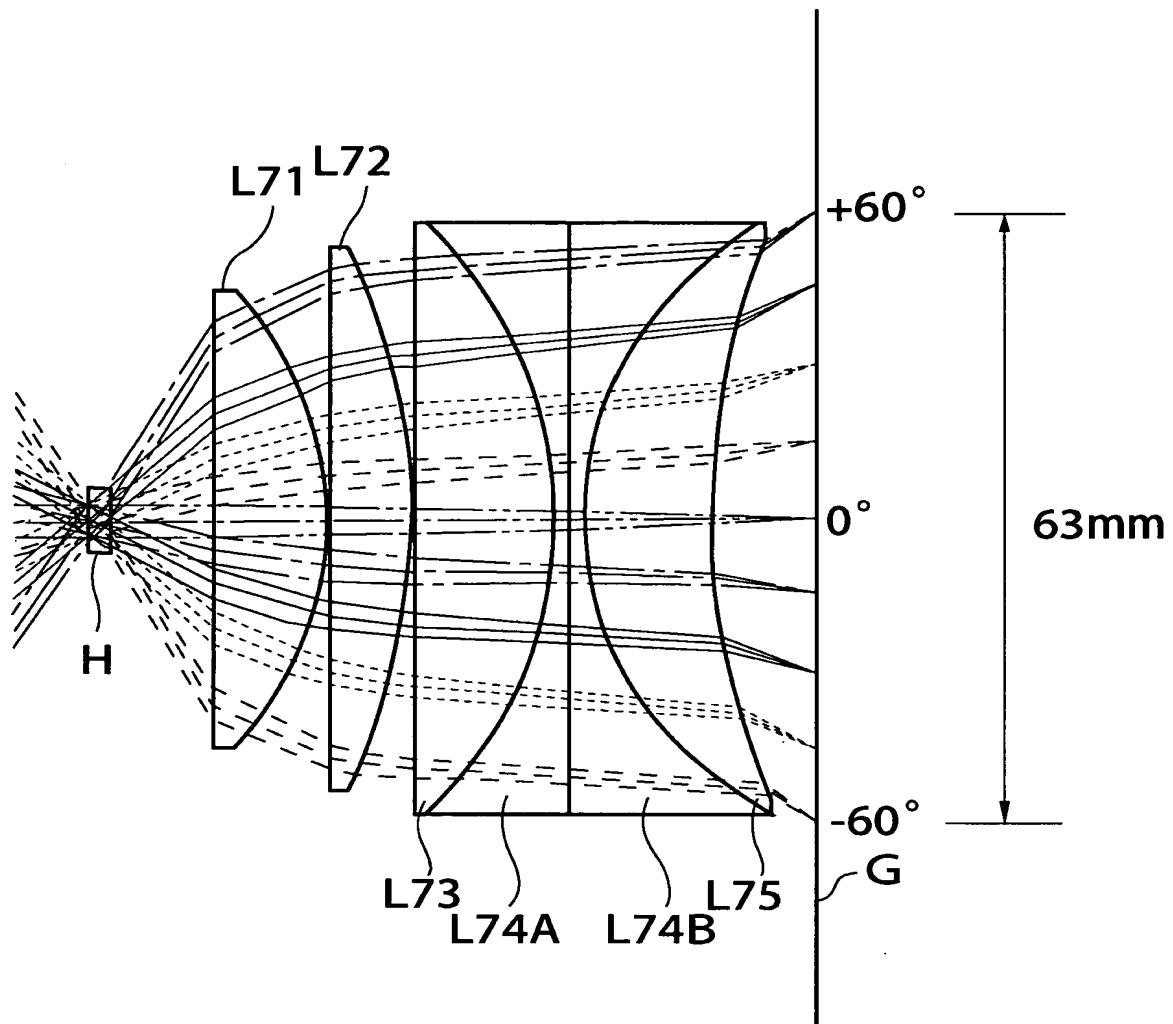


Fig. 8A

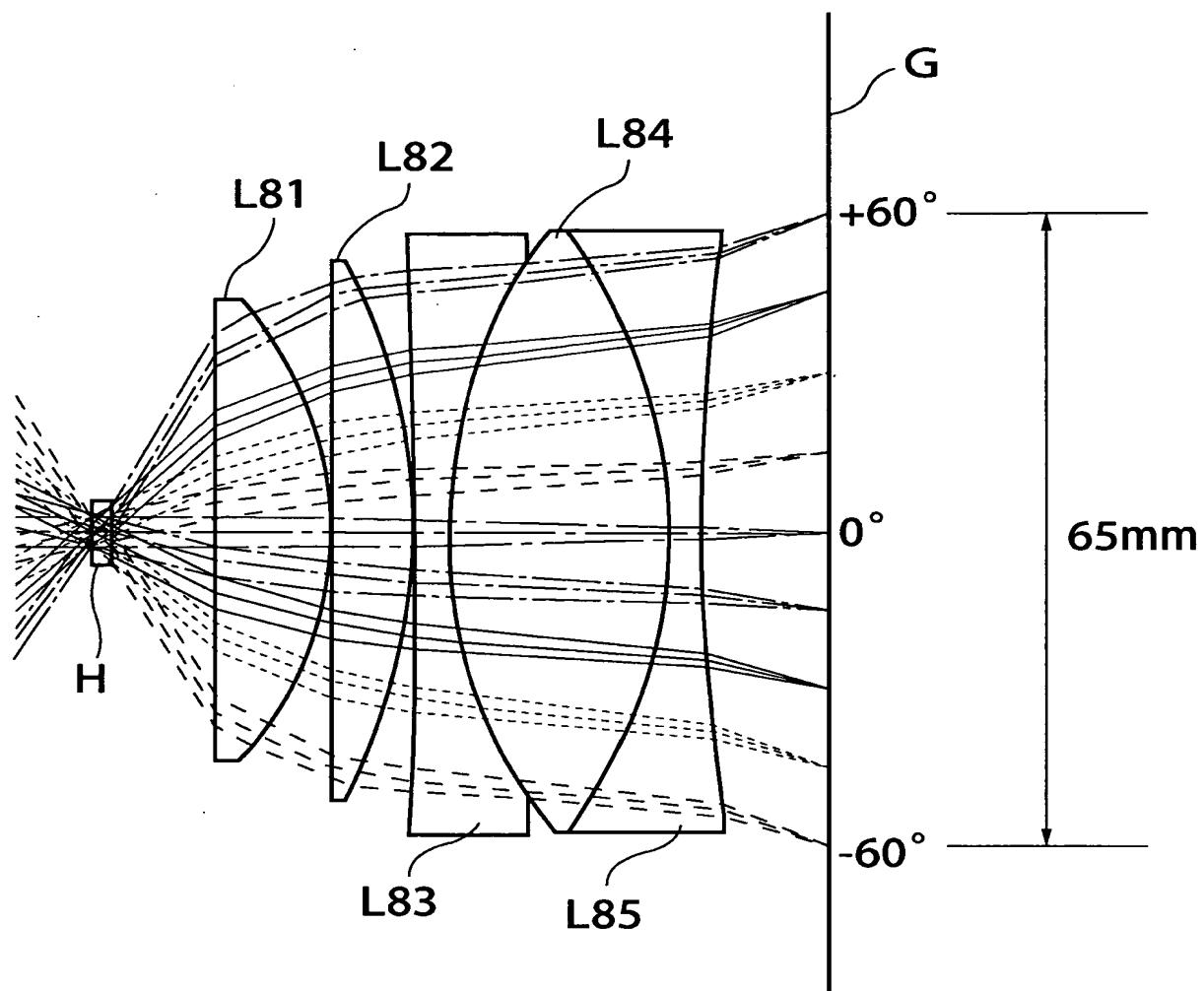


Fig. 8B

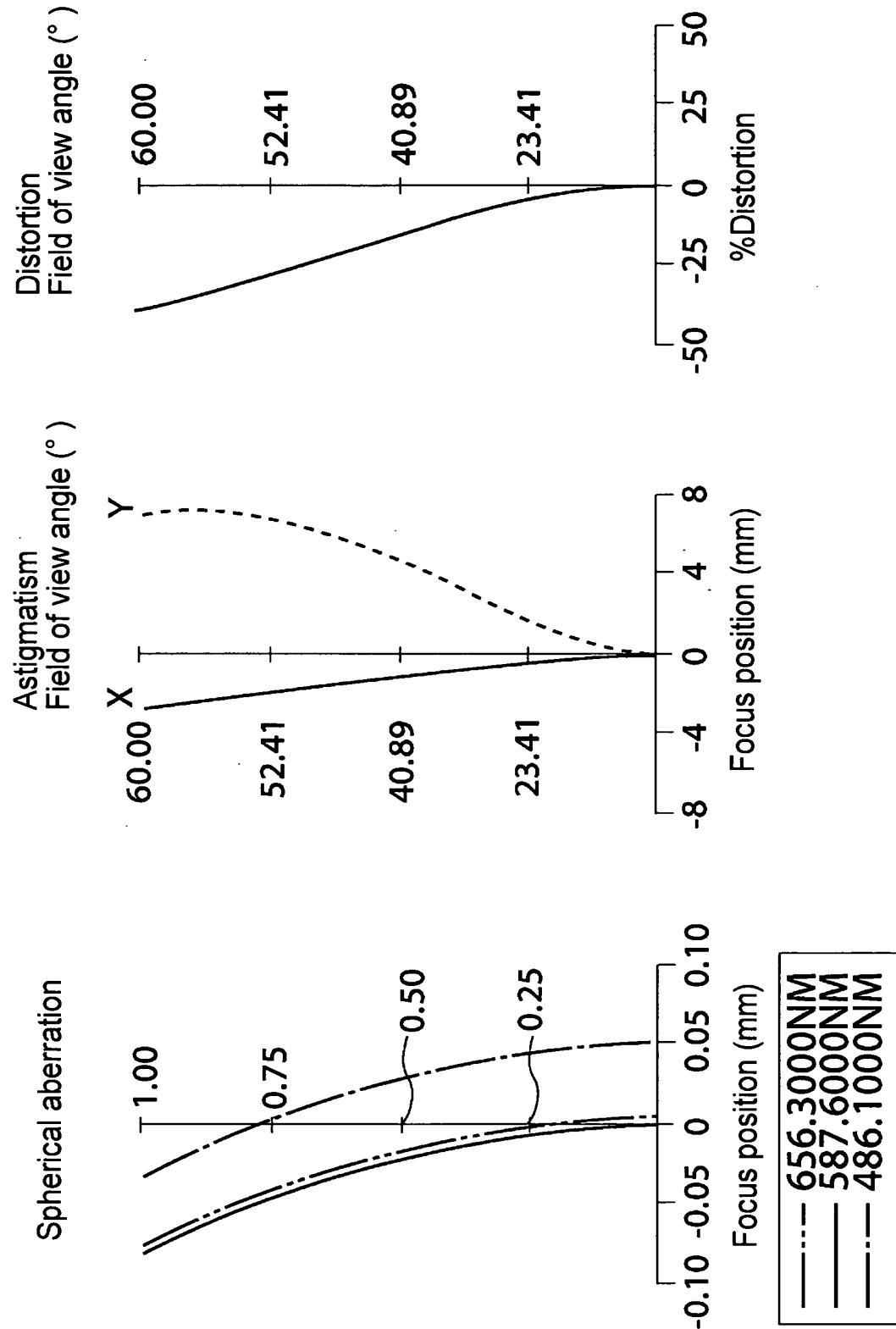


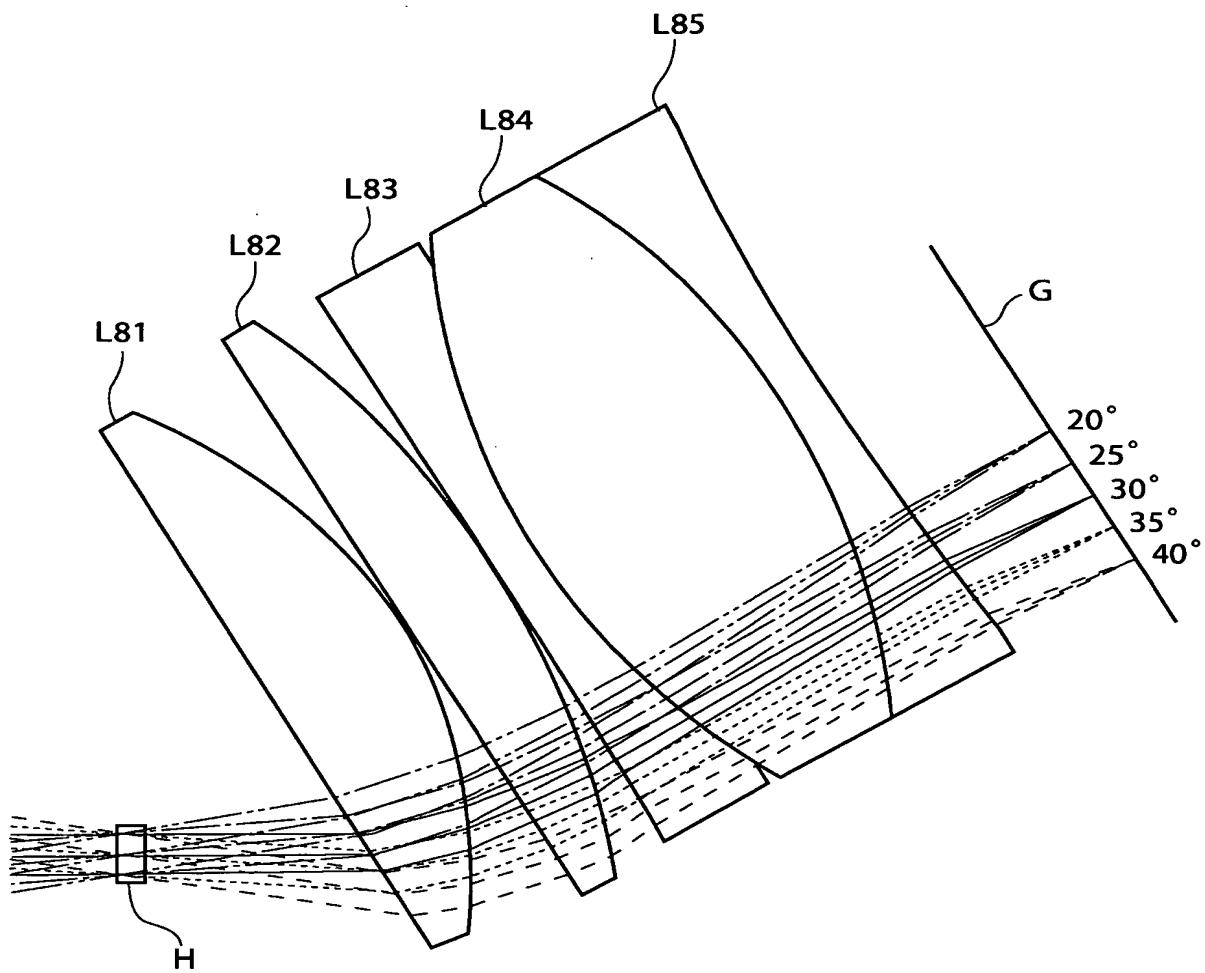
Fig. 8C

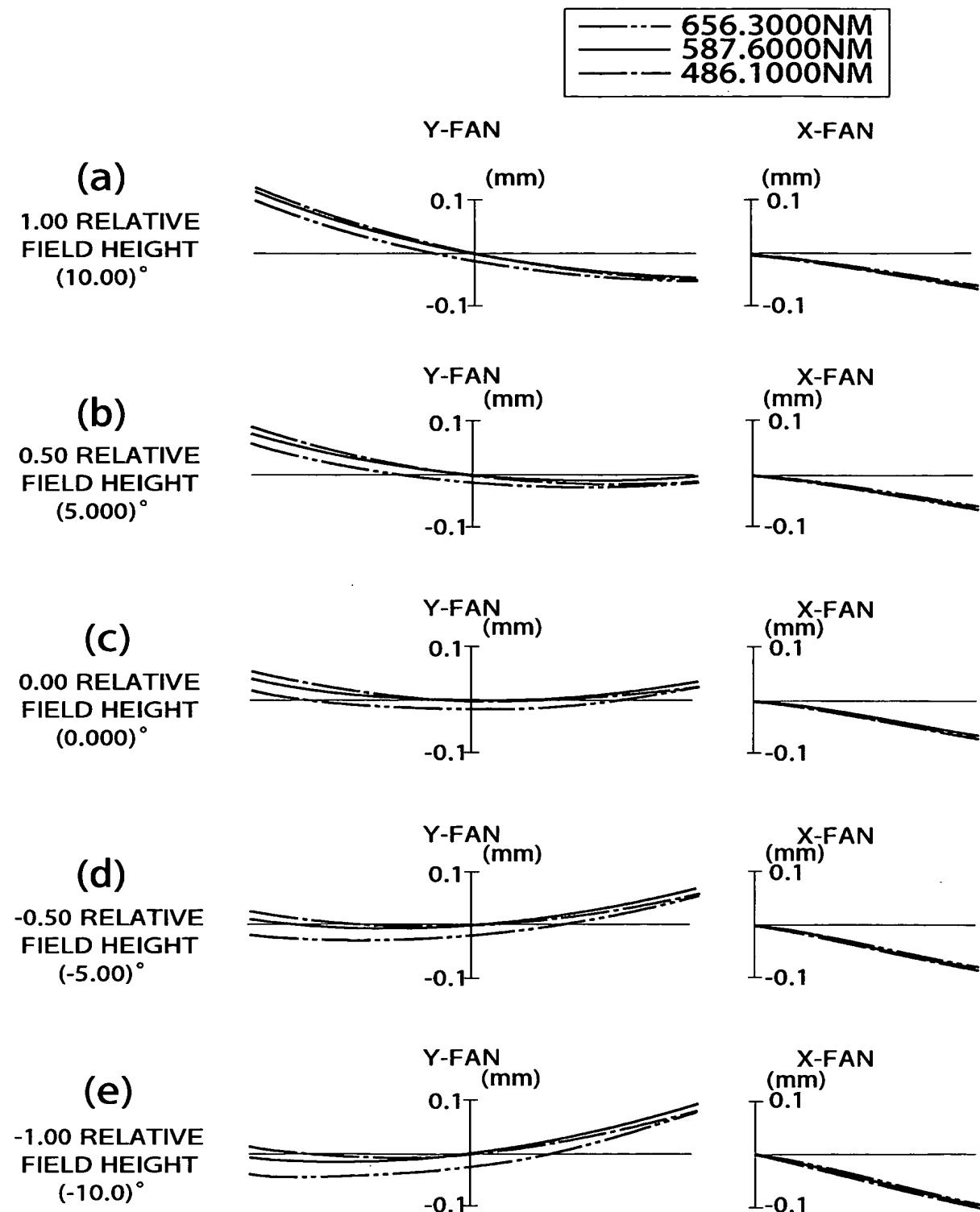
Fig. 8D

Fig. 8E

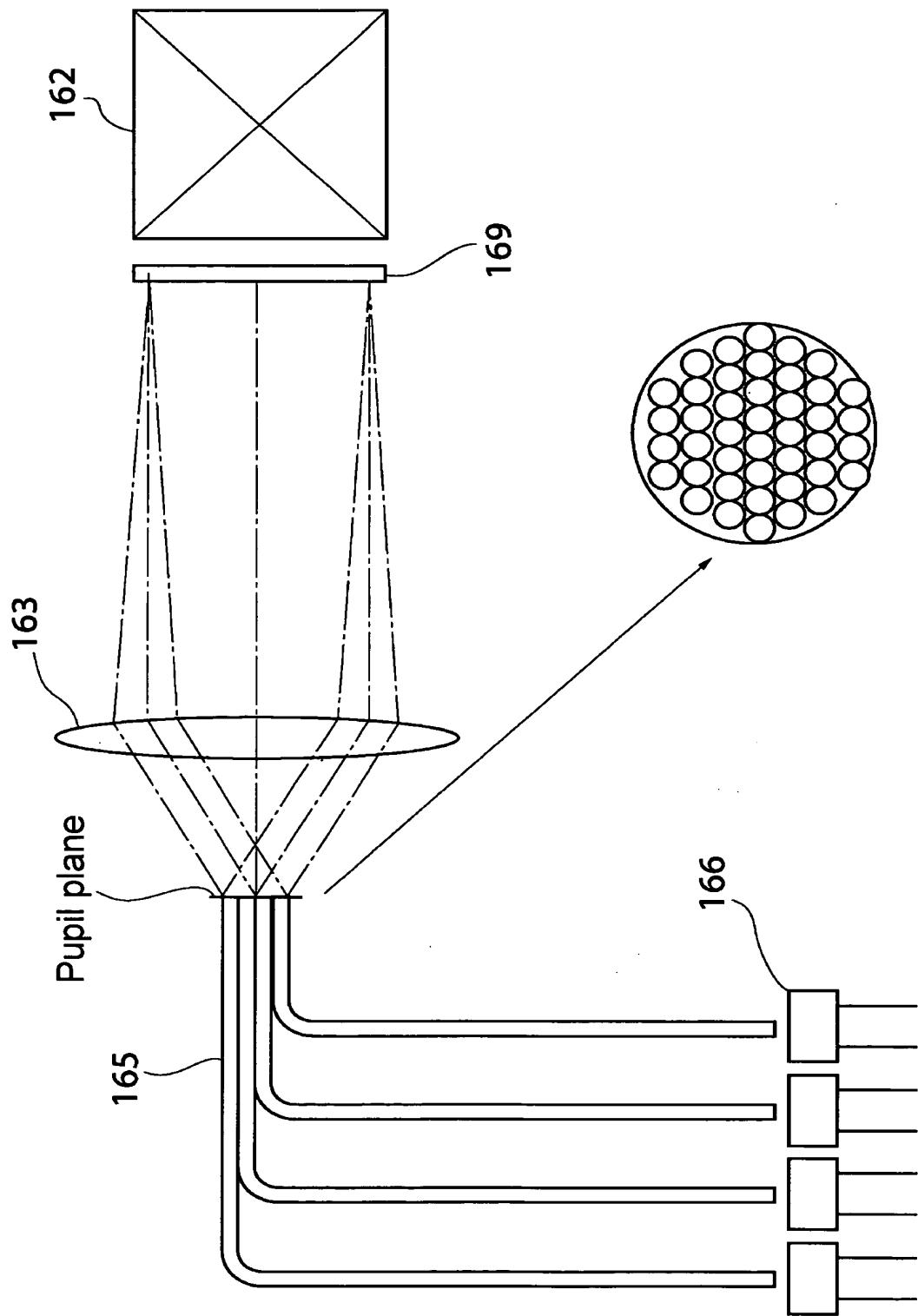


Fig. 8F

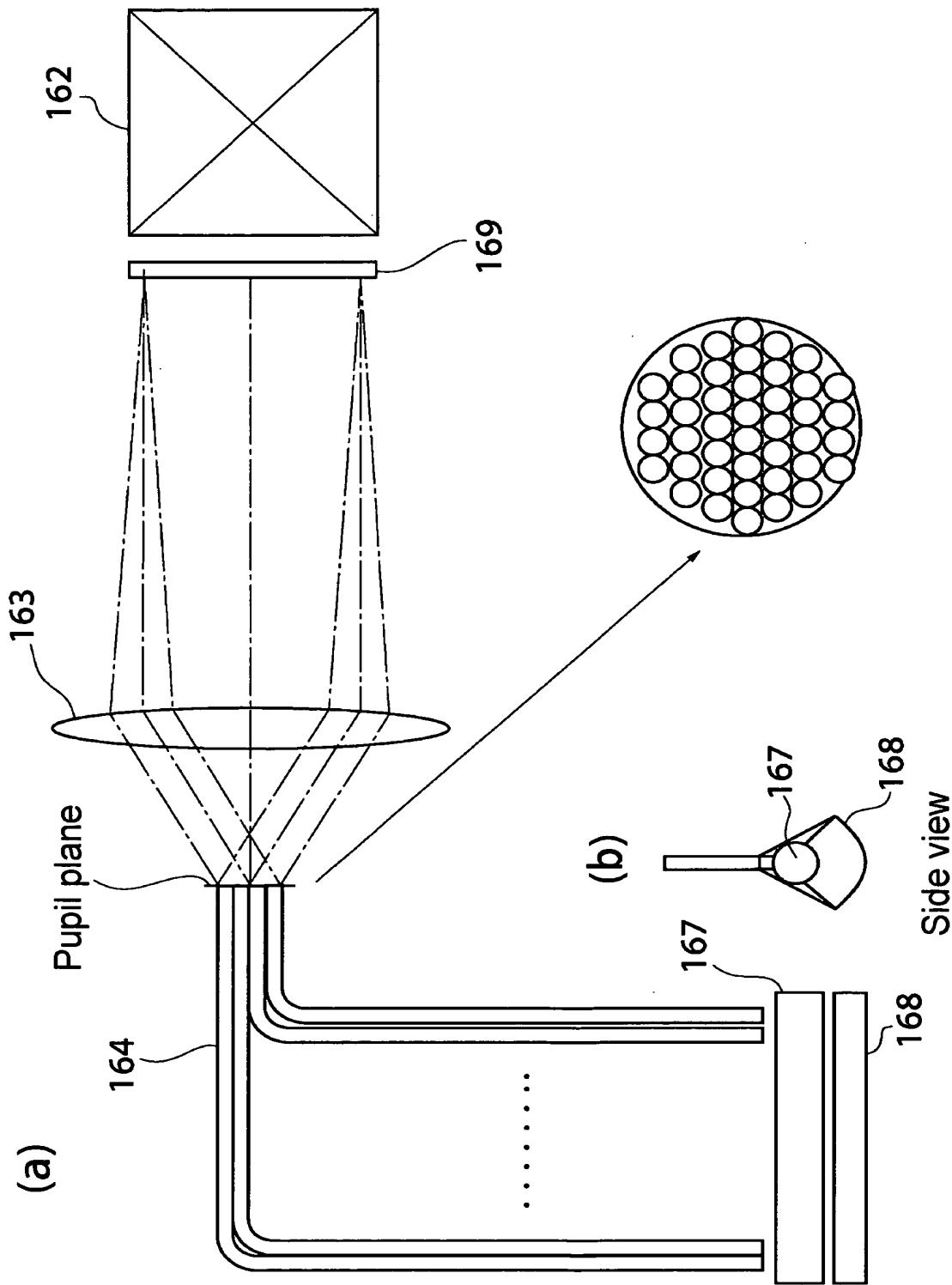


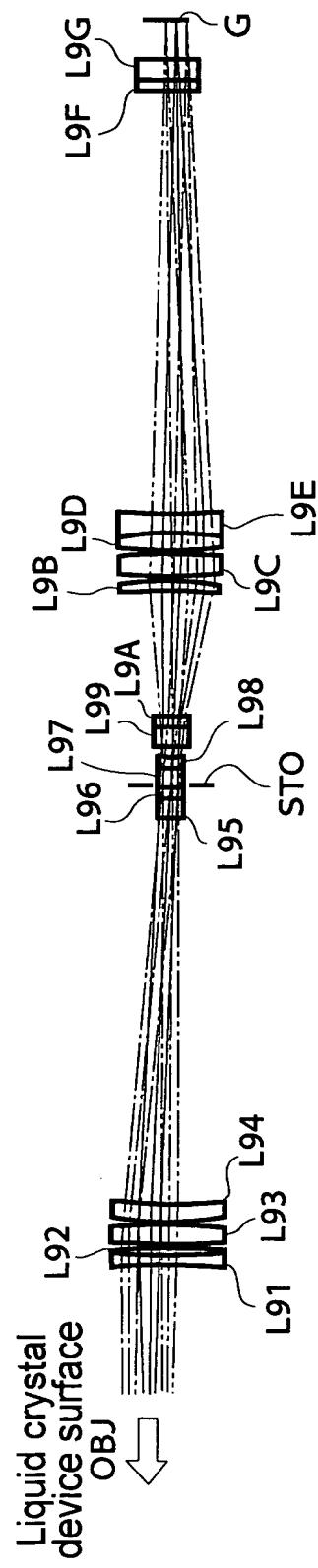
Fig. 9A

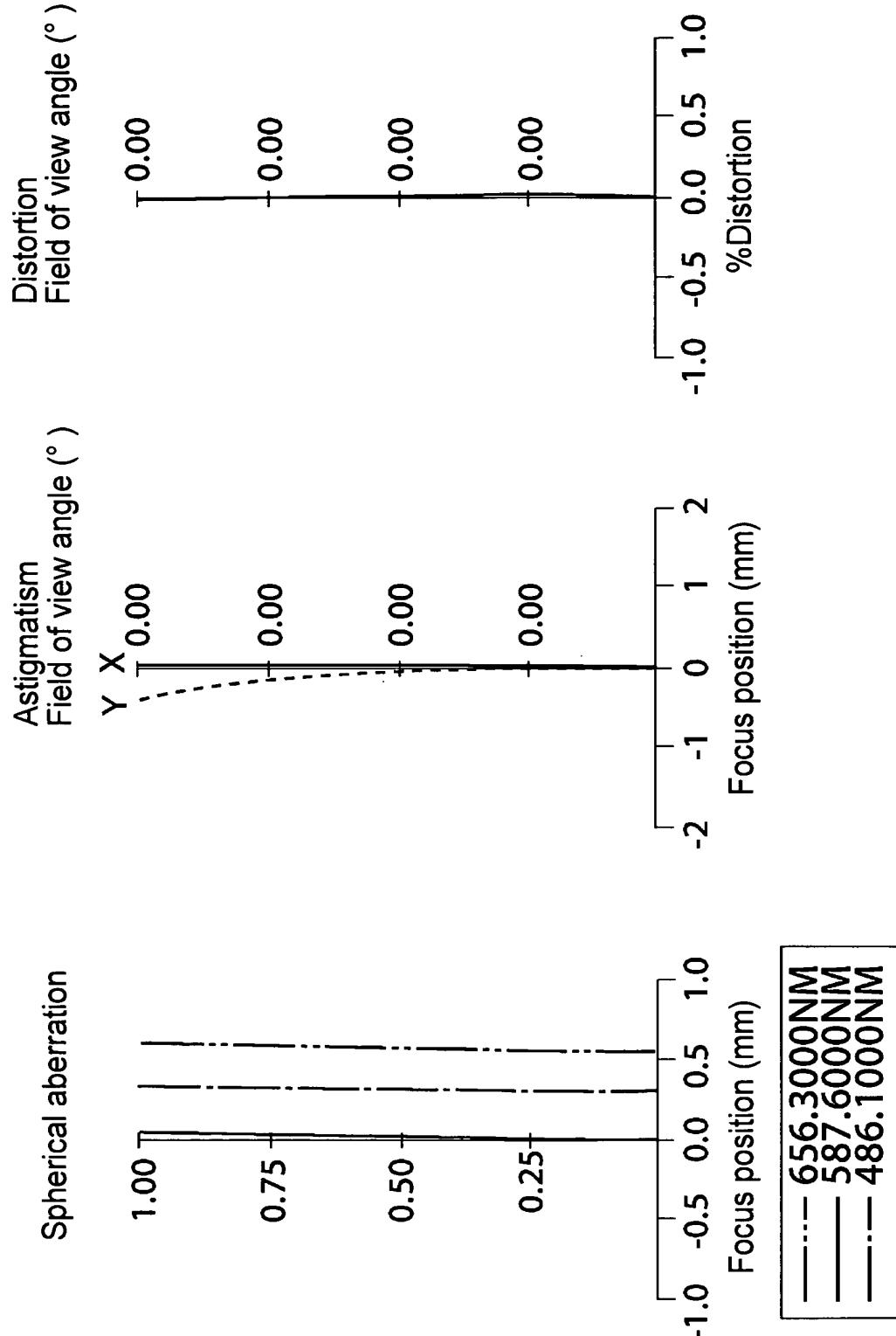
Fig. 9B

Fig. 9C

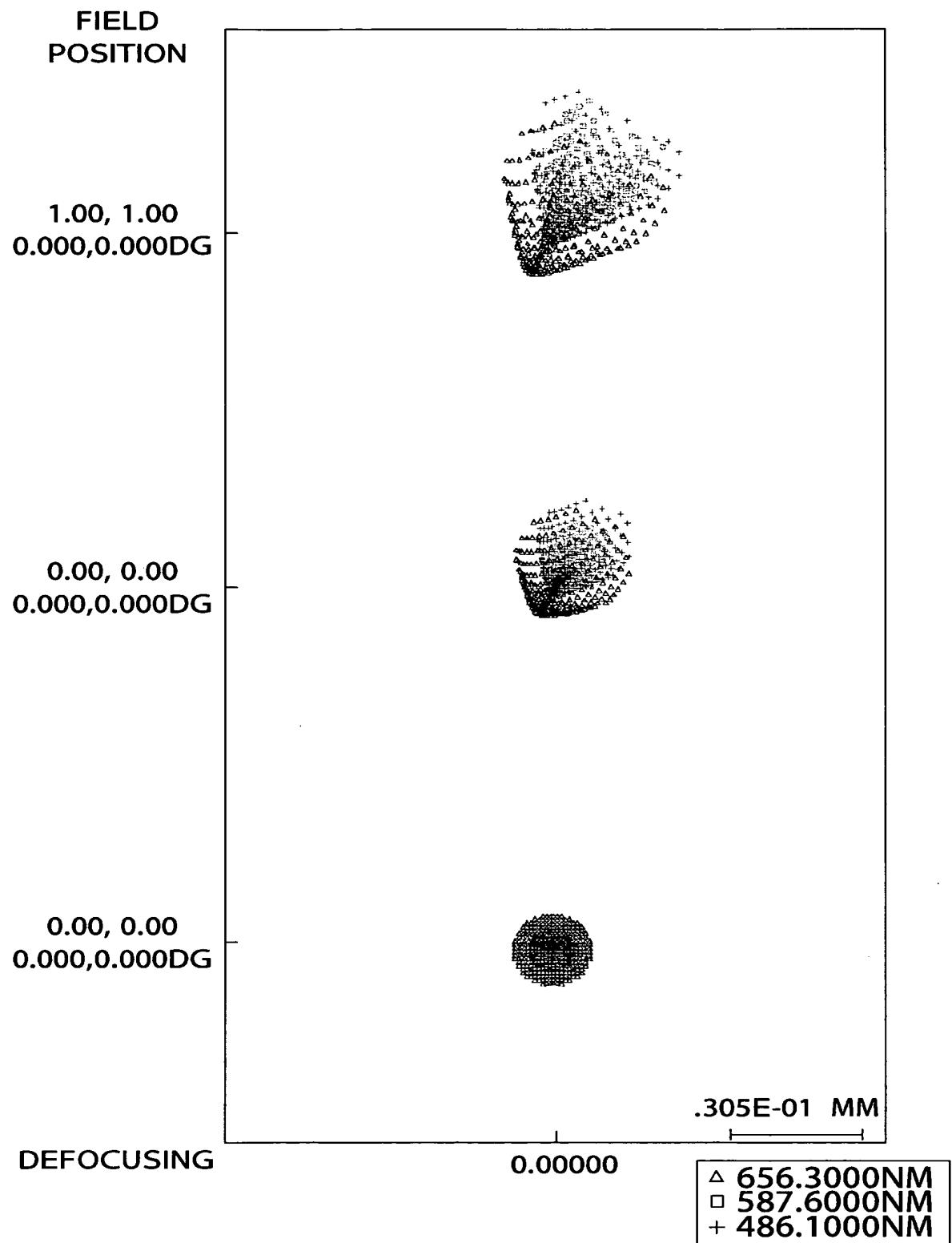


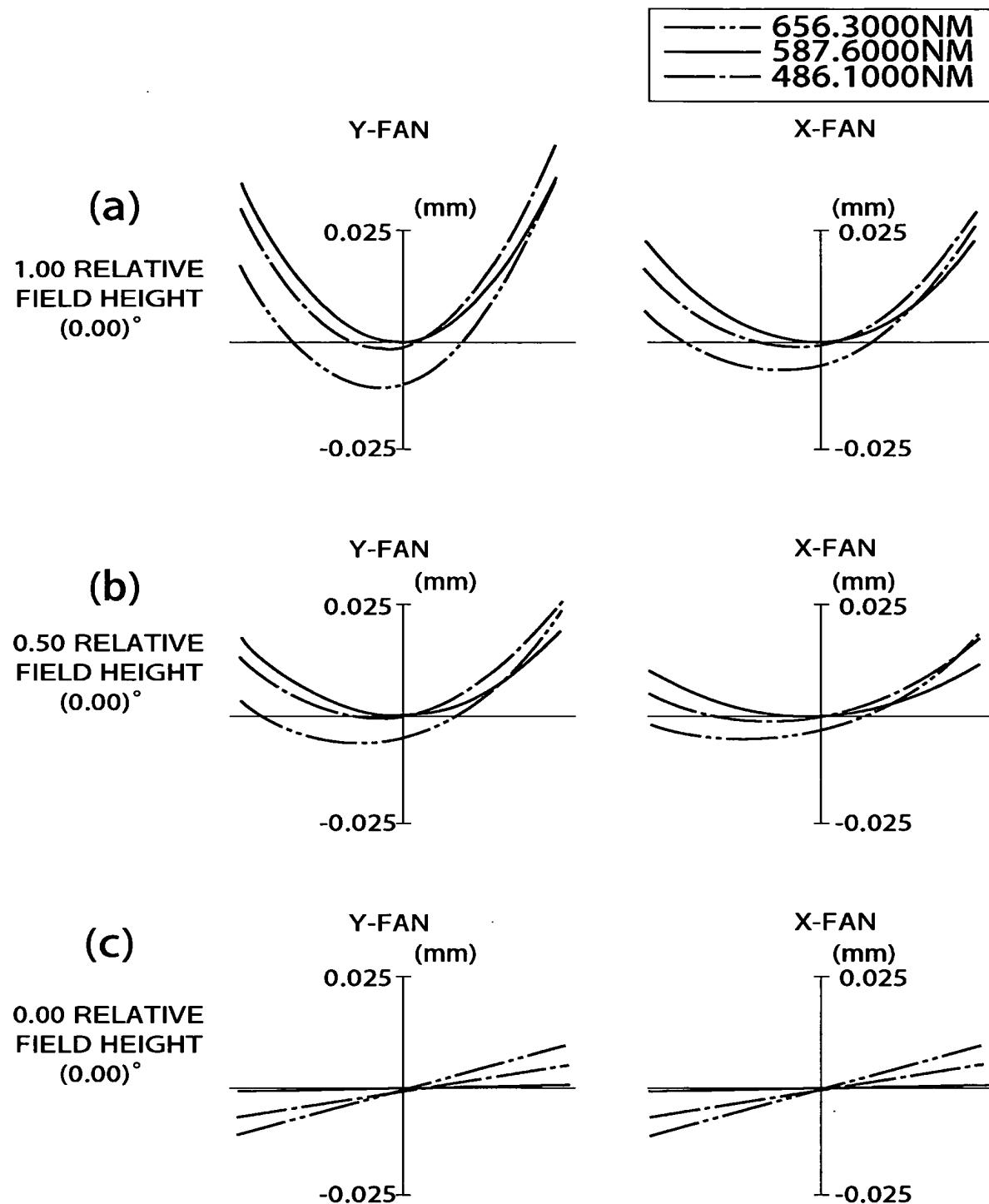
Fig. 9D

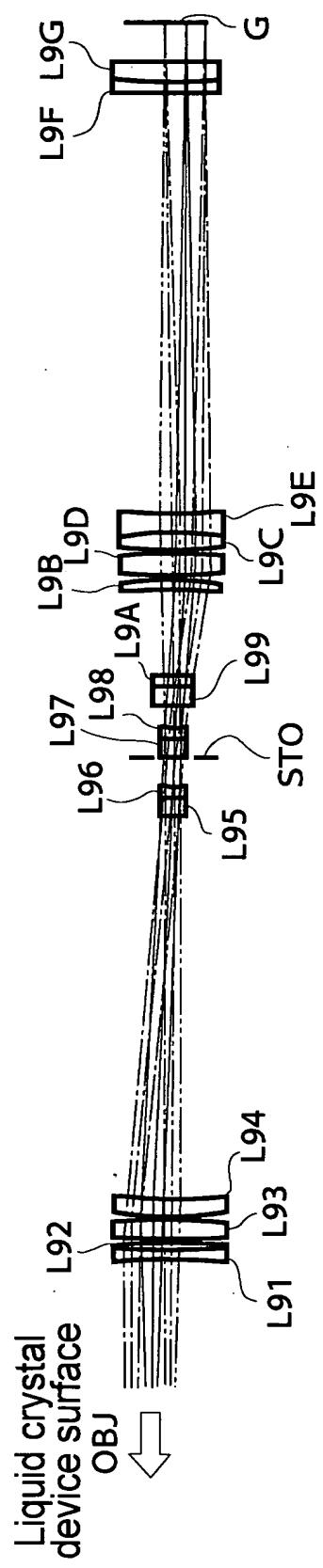
Fig. 10A

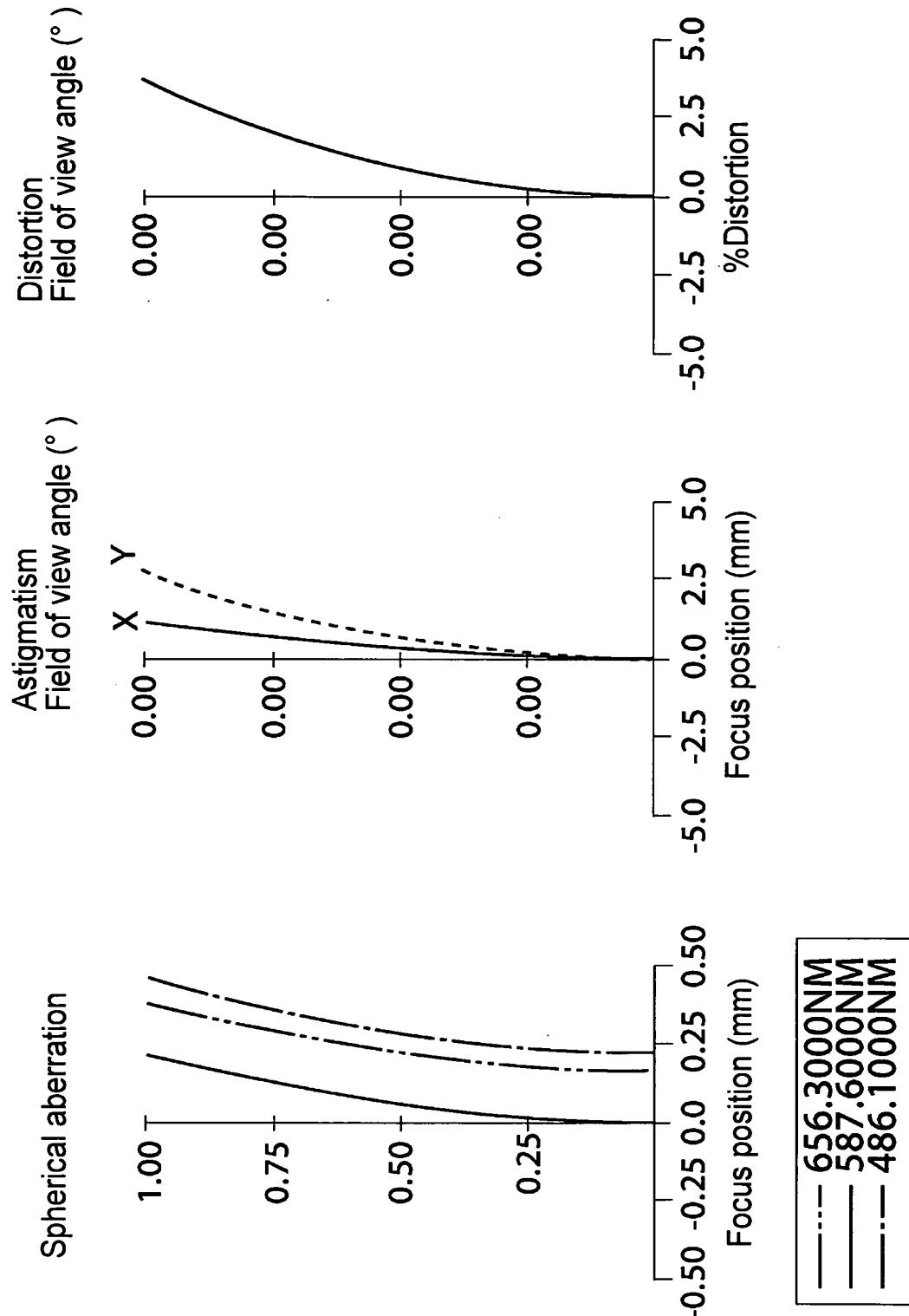
Fig. 10B

Fig. 10C

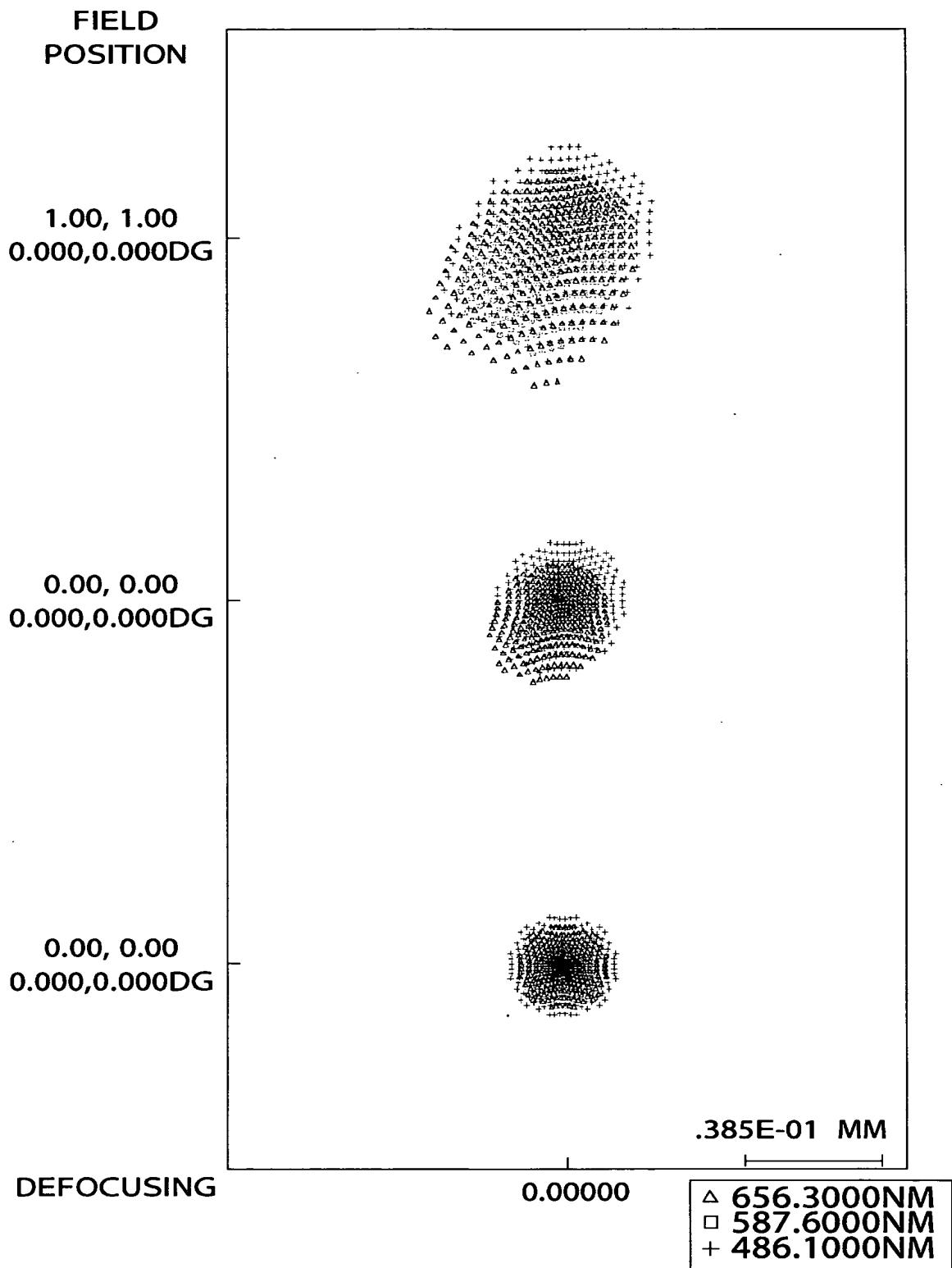


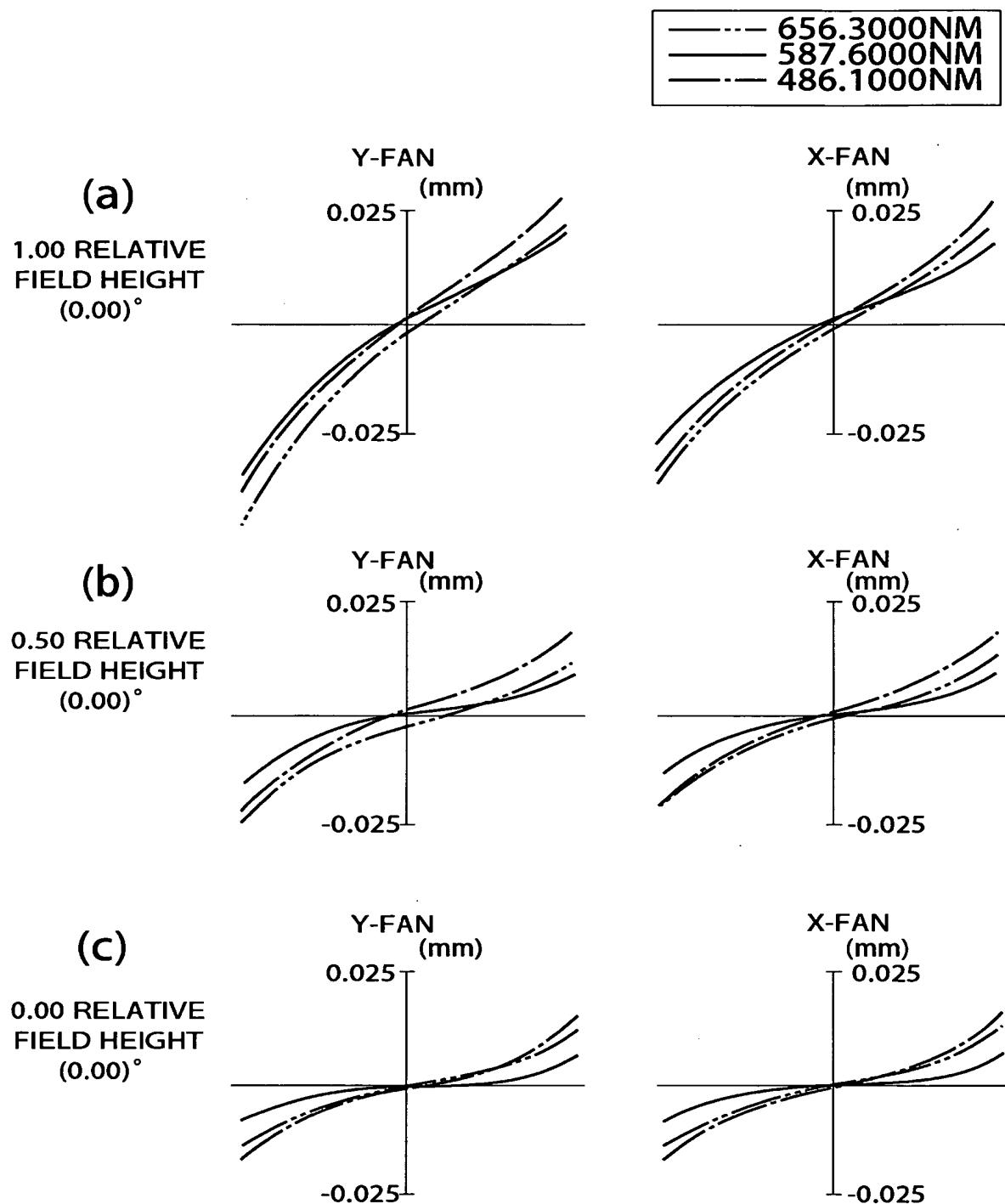
Fig. 10D

Fig. 11A

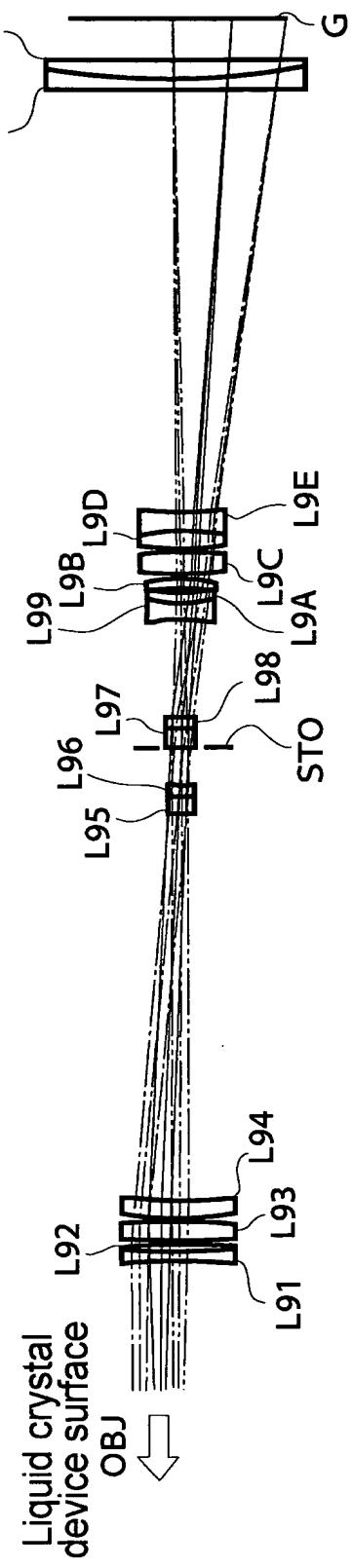


Fig. 11B

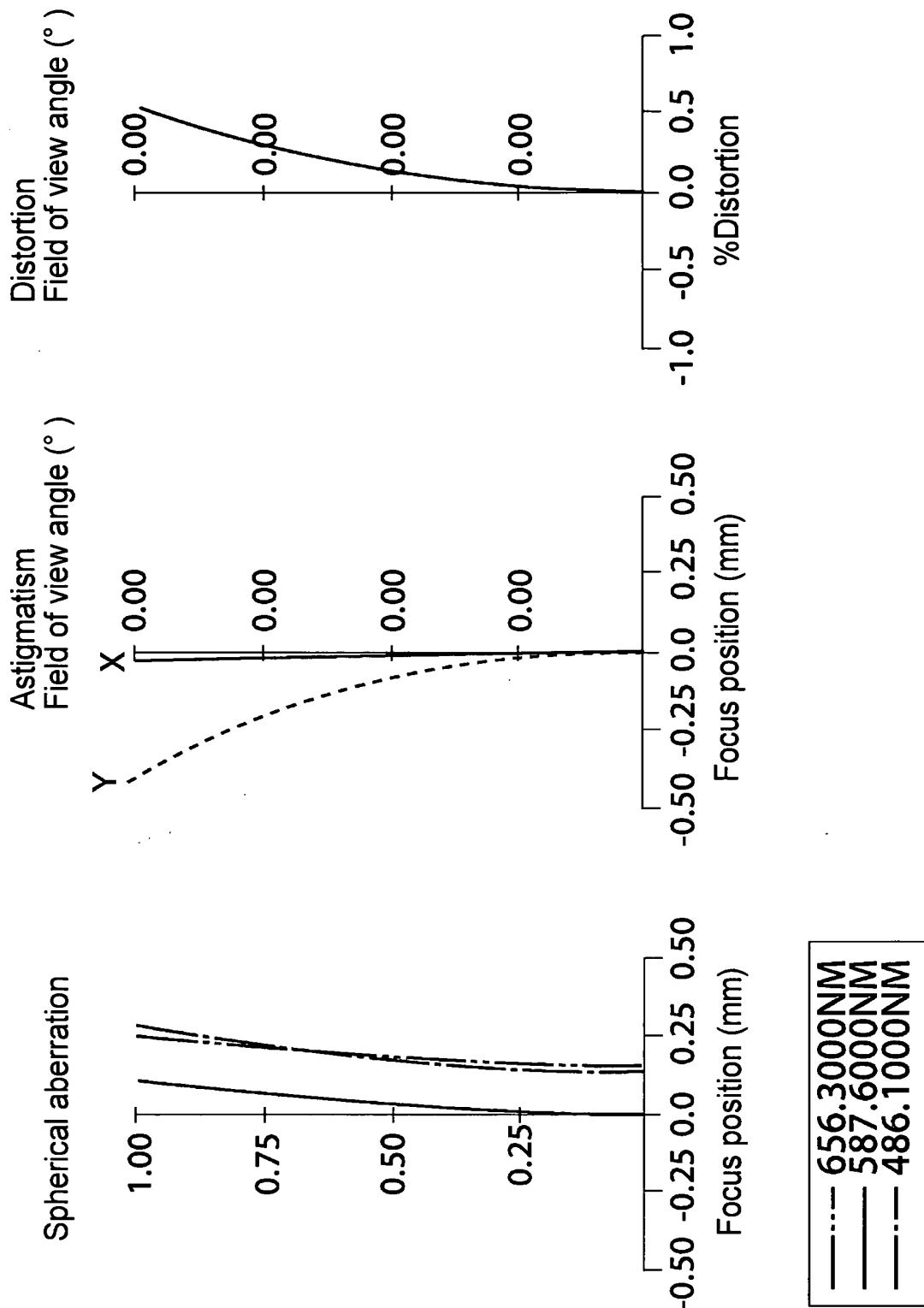


Fig. 11C

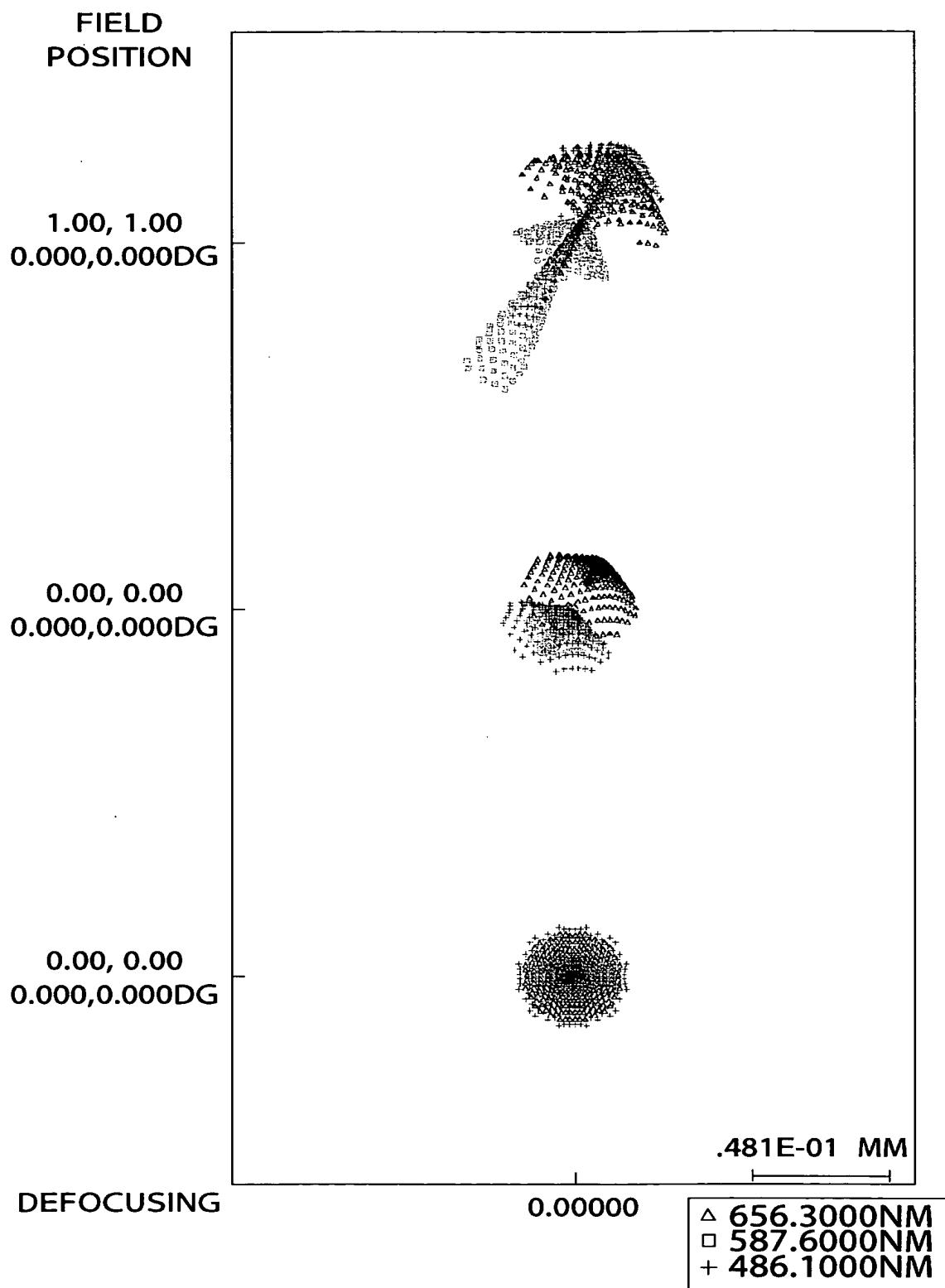


Fig. 11D

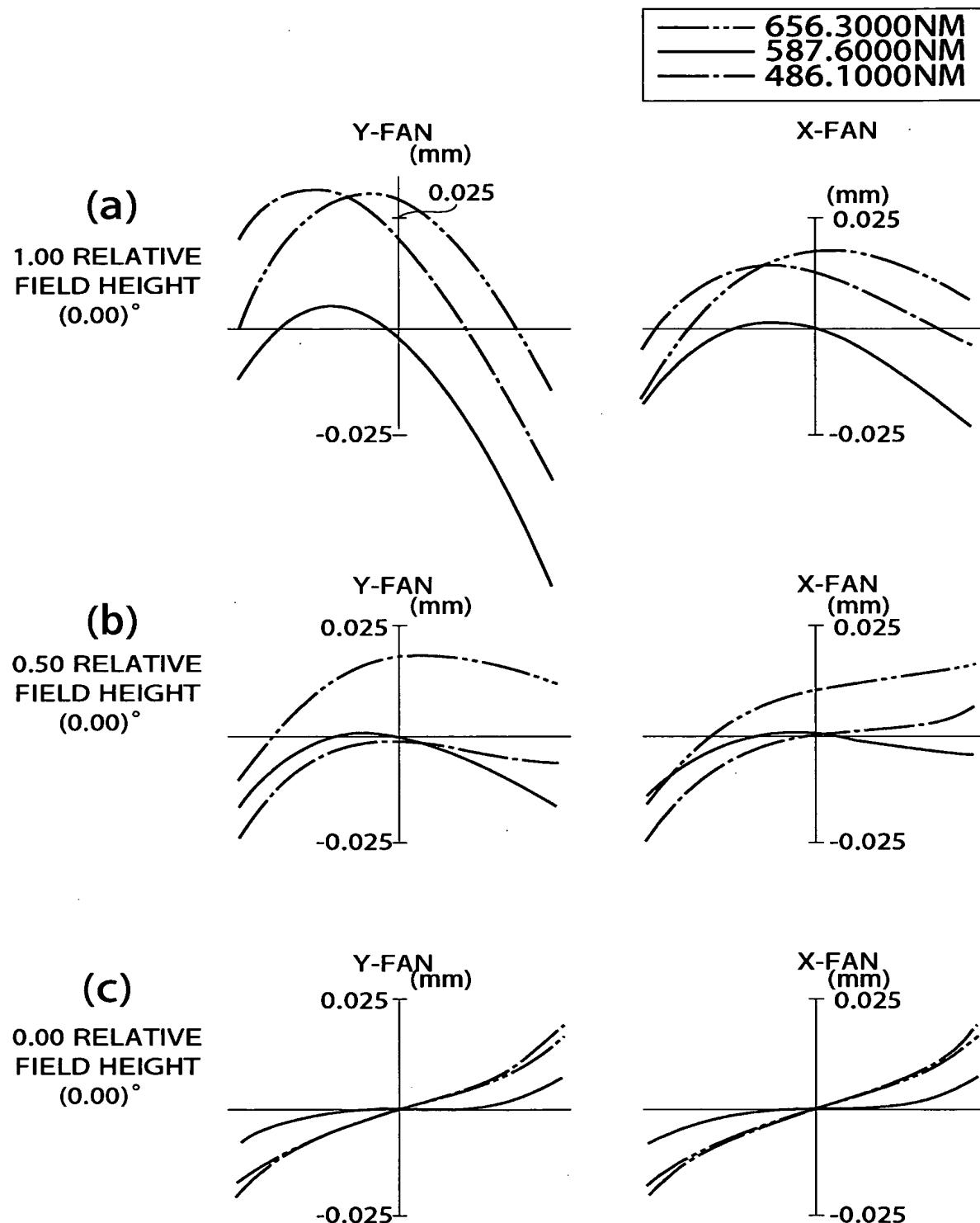


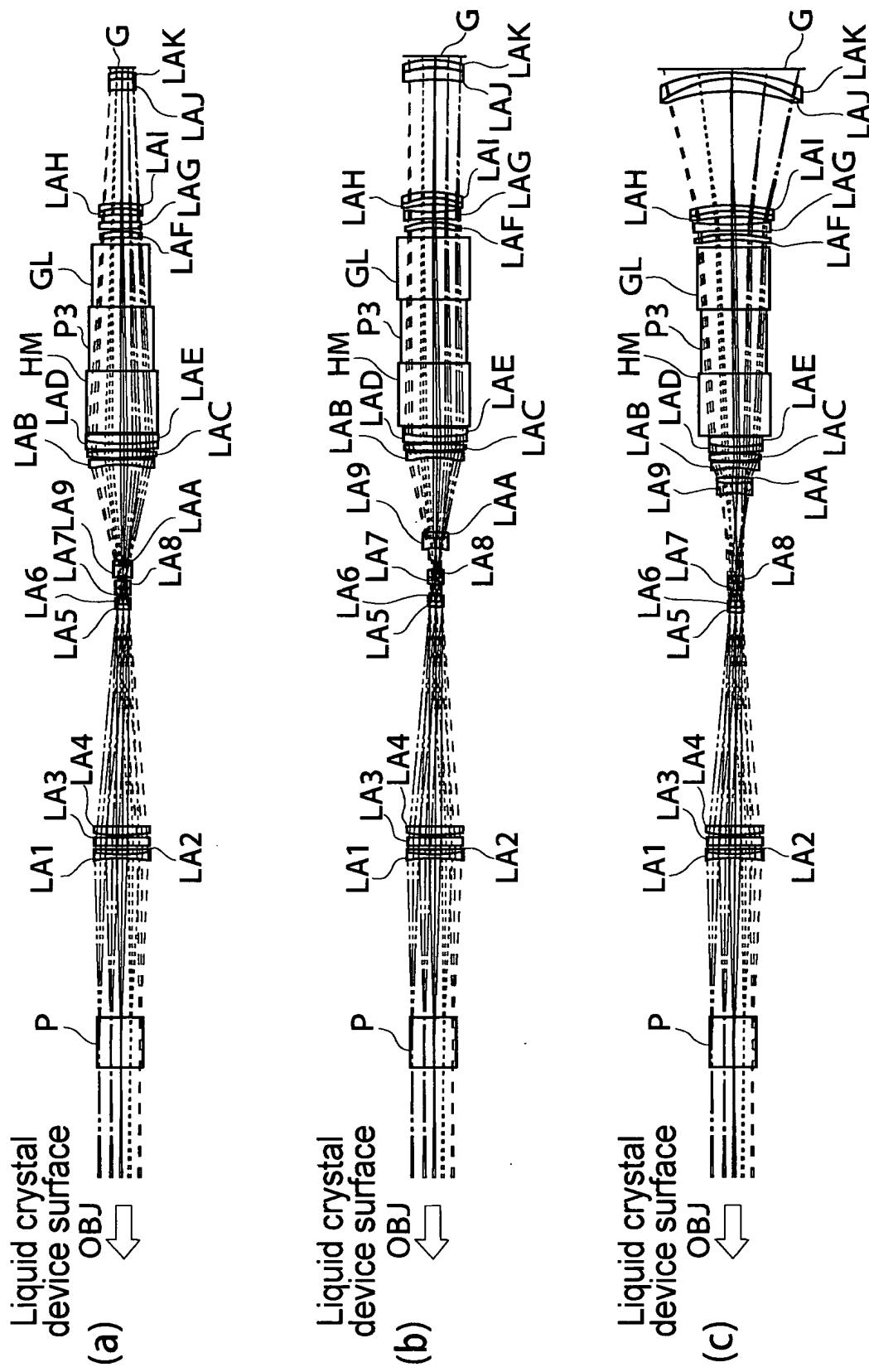
Fig. 12A

Fig. 12B

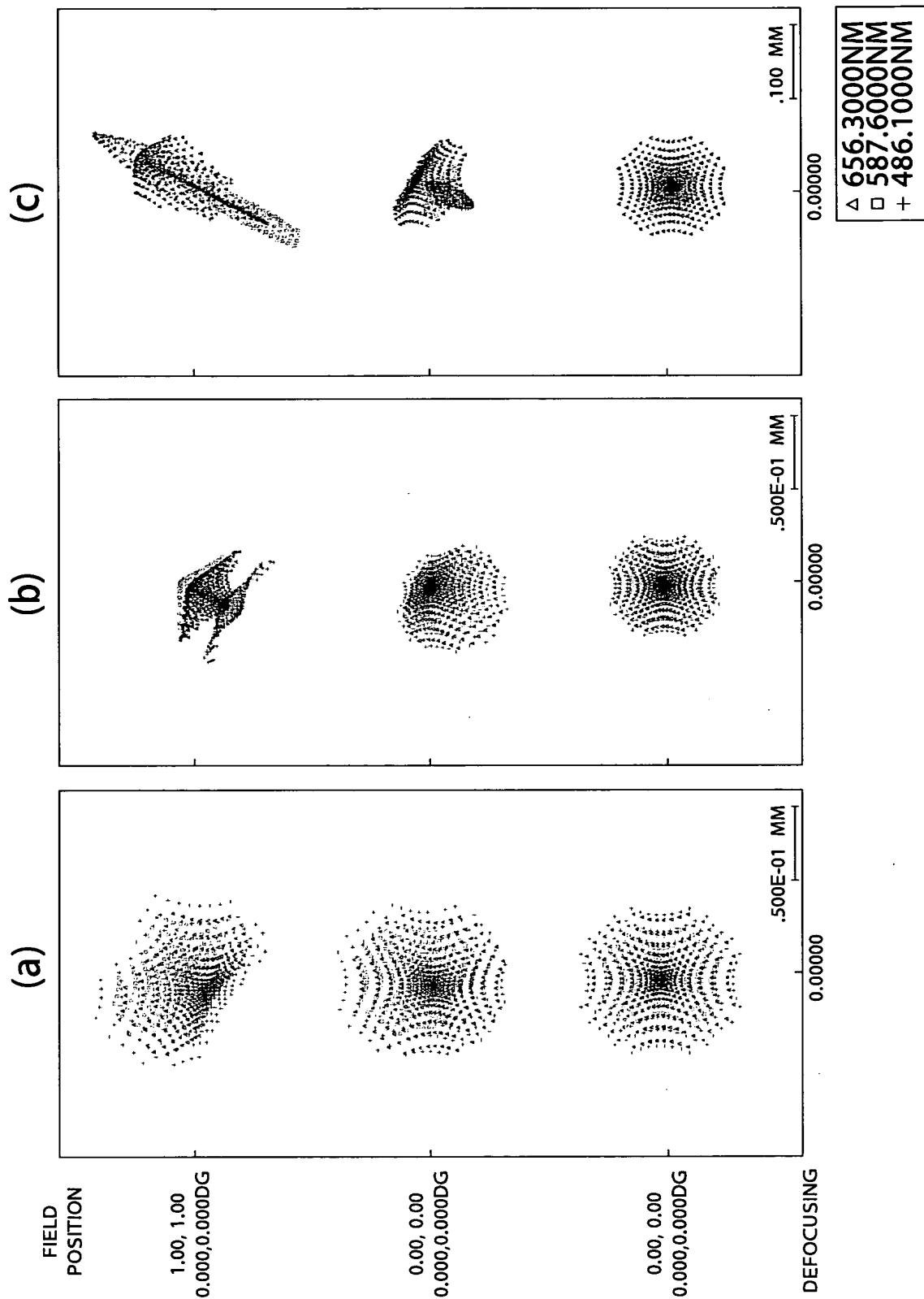


Fig. 12C

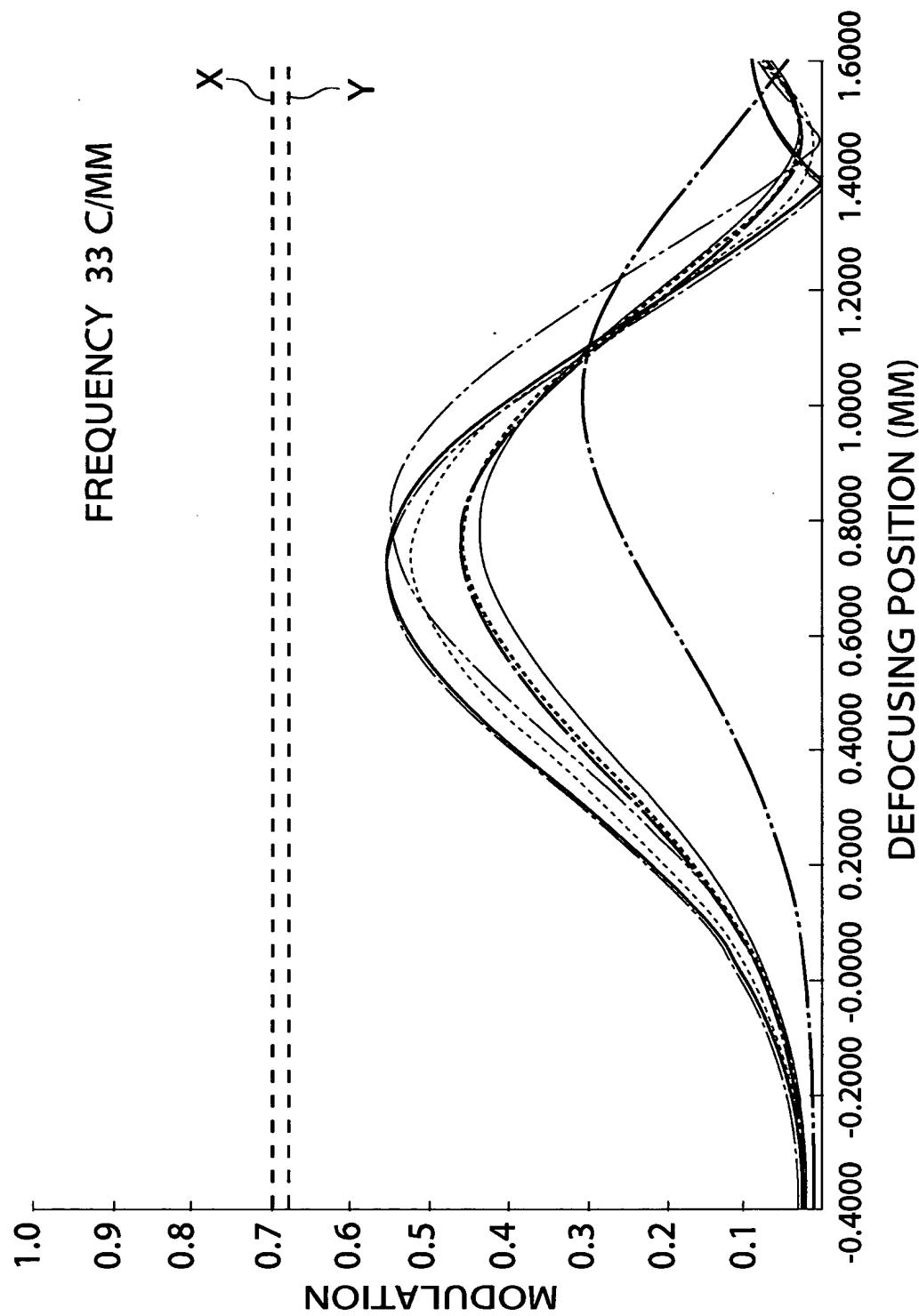


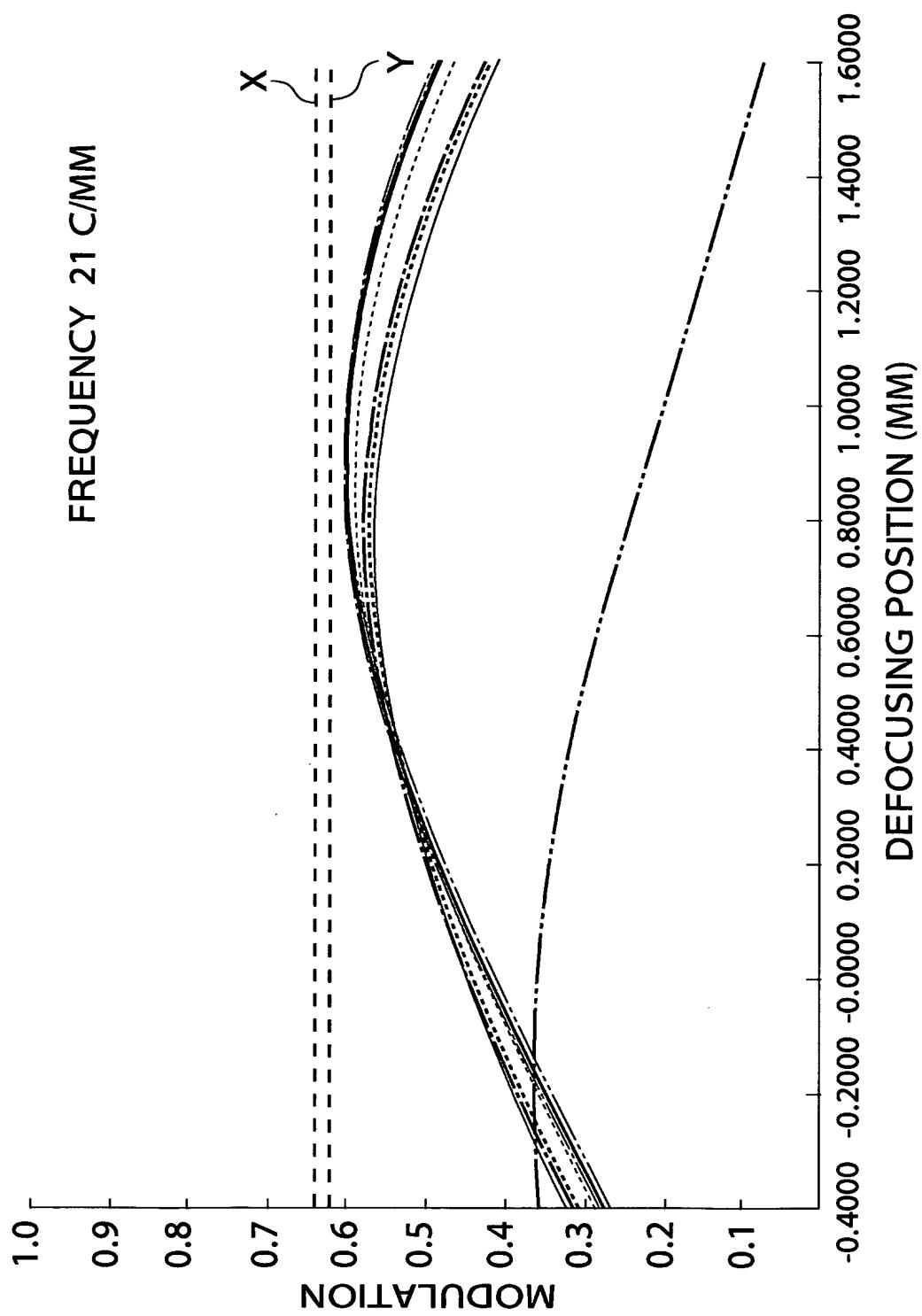
Fig. 12D

Fig. 12E

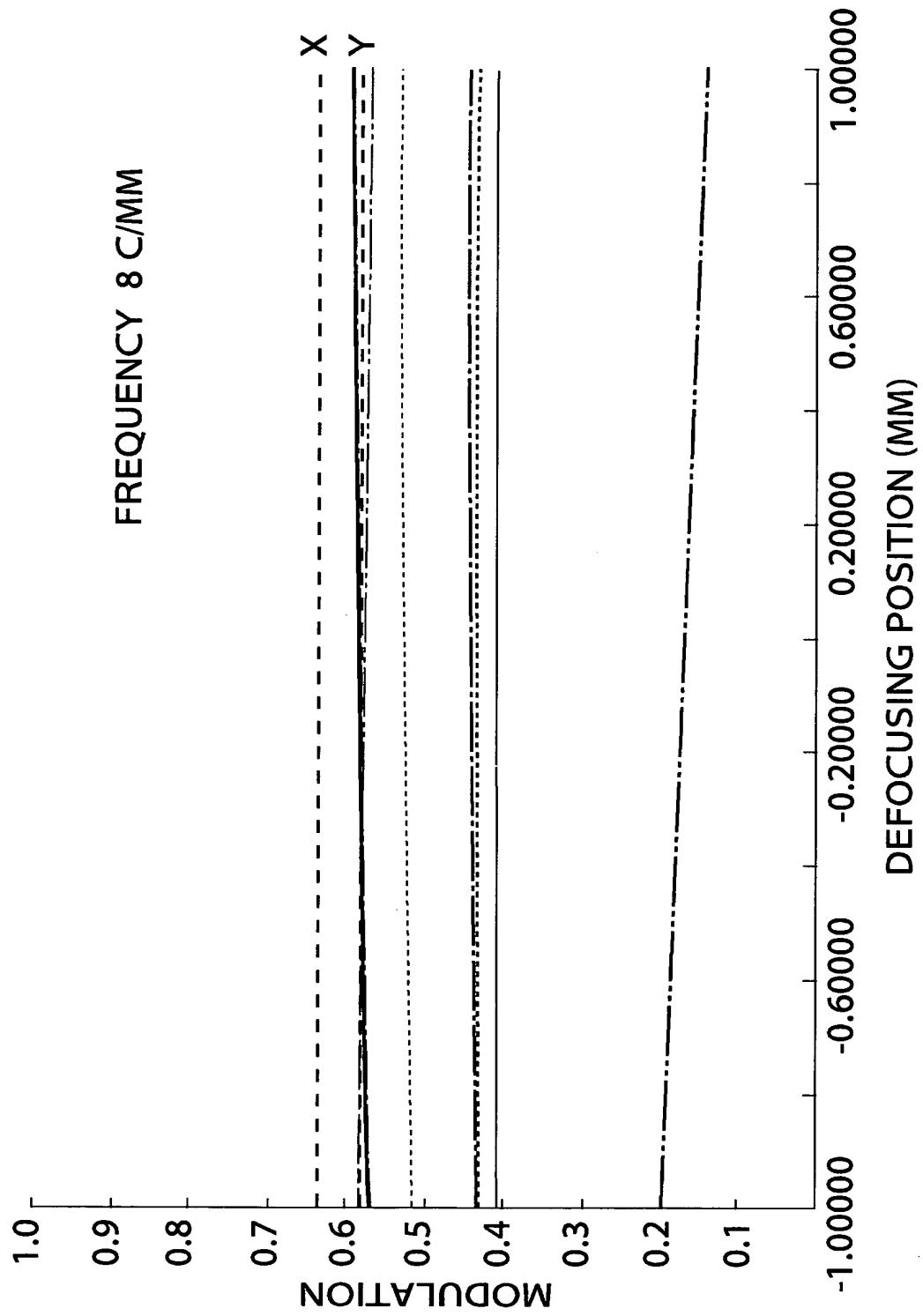


Fig. 12F

na=0.0025

Zoom system	Unit	Condition 1	Condition 2	Condition 3	Condition 4	Condition 5	Condition 6	Condition 7	Condition 8	Condition 9	Condition 10	Condition 11	Condition 12	Condition 13
S28	mm	1	2.17	3.47	4.22	4.72	5.06	5.3	5.57	5.66	5.64	5.527	5.362	5.108
S31	mm	1	2	4	6	8	10	12	16	20	25	30	35	41.5
S34	mm	50	47.83	44.53	41.78	39.28	36.94	34.7	30.43	26.34	21.36	16.473	11.638	5.392
Image side approximate AF plane	mm	2.2073	2.2236	2.2151	2.2963	2.2947	2.3236	2.2535	2.1447	2.2917	2.2077	2.2104	2.2566	2.1962
Screen projection image/2	mm	6.19	6.98	8.24	9.36	10.45	11.52	12.60	14.83	17.17	20.25	23.56	27.13	32.197
Chip frequency/eyesight	Times	0.87	0.98	1.16	1.32	1.47	1.62	1.78	2.09	2.42	2.85	3.32	3.82	4.53
Evaluation frequency	Hz	34.13	34.13	29.42	25.89	23.20	21.04	19.23	16.34	14.12	11.97	10.29	8.93	7.53
Field of view angle (one-side)	Degree	18.50	20.67	24.01	26.85	29.46	31.92	34.28	38.74	42.87	47.60	51.87	55.72	60.13
MTFO	%	36.5%	37.7%	52.0%	55.2%	54.0%	54.5%	53.3%	54.4%	51.0%	51.4%	46.0%	47.7%	44.0%
MTFO.5	%	36.4%	38.4%	53.4%	56.2%	54.5%	55.1%	53.6%	54.2%	52.4%	54.5%	49.1%	50.8%	44.2%
MTF1	%	31.5%	30.9%	37.9%	42.2%	40.1%	31.1%	27.7%	21.3%	19.0%	17.9%	25.2%	26.9%	16.9%
Best focus	mm	1	1	0.8	0.6	0.4	0.4	0.2	0	-0.4	0.8	0	0.2	0

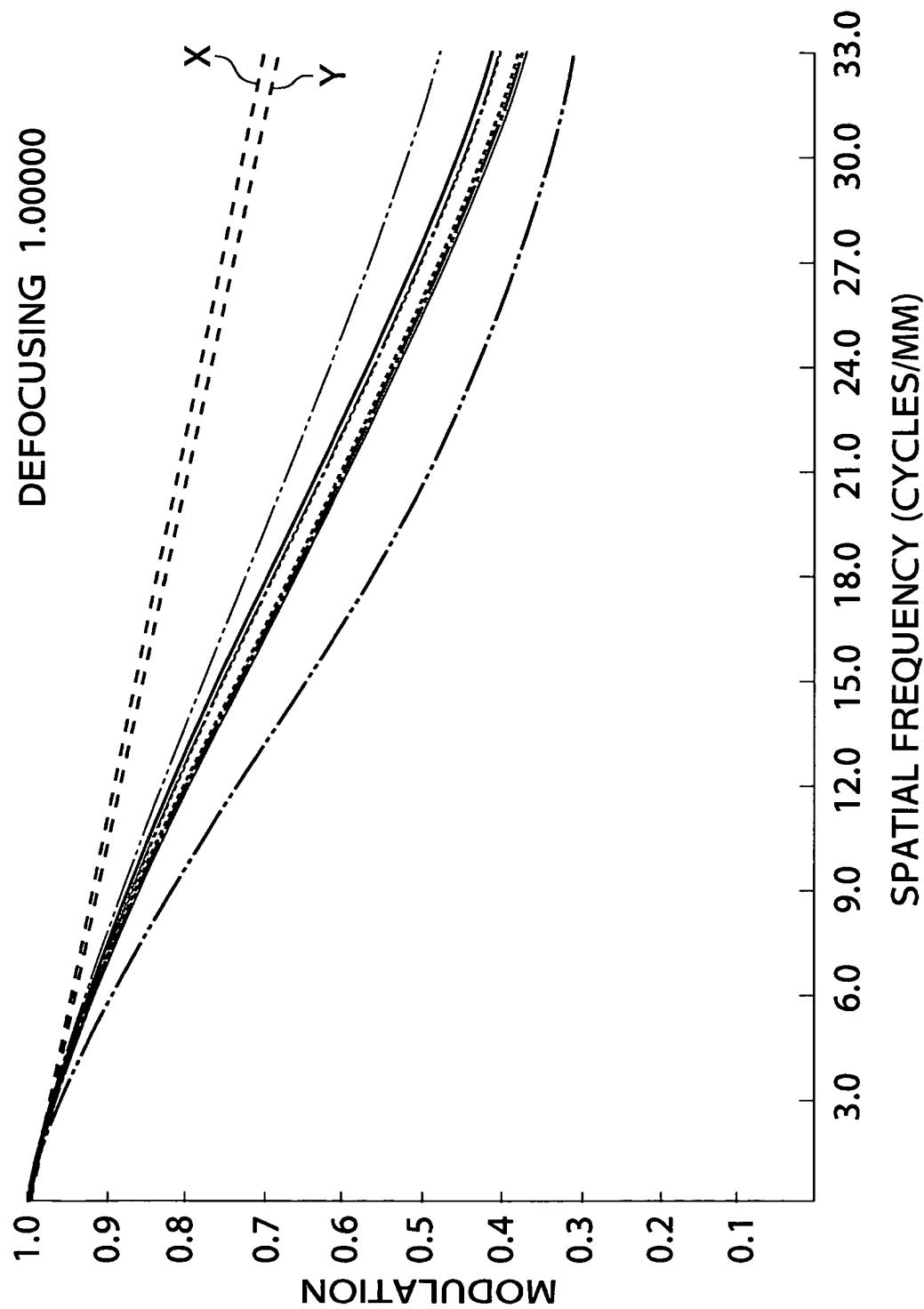
Fig. 12G

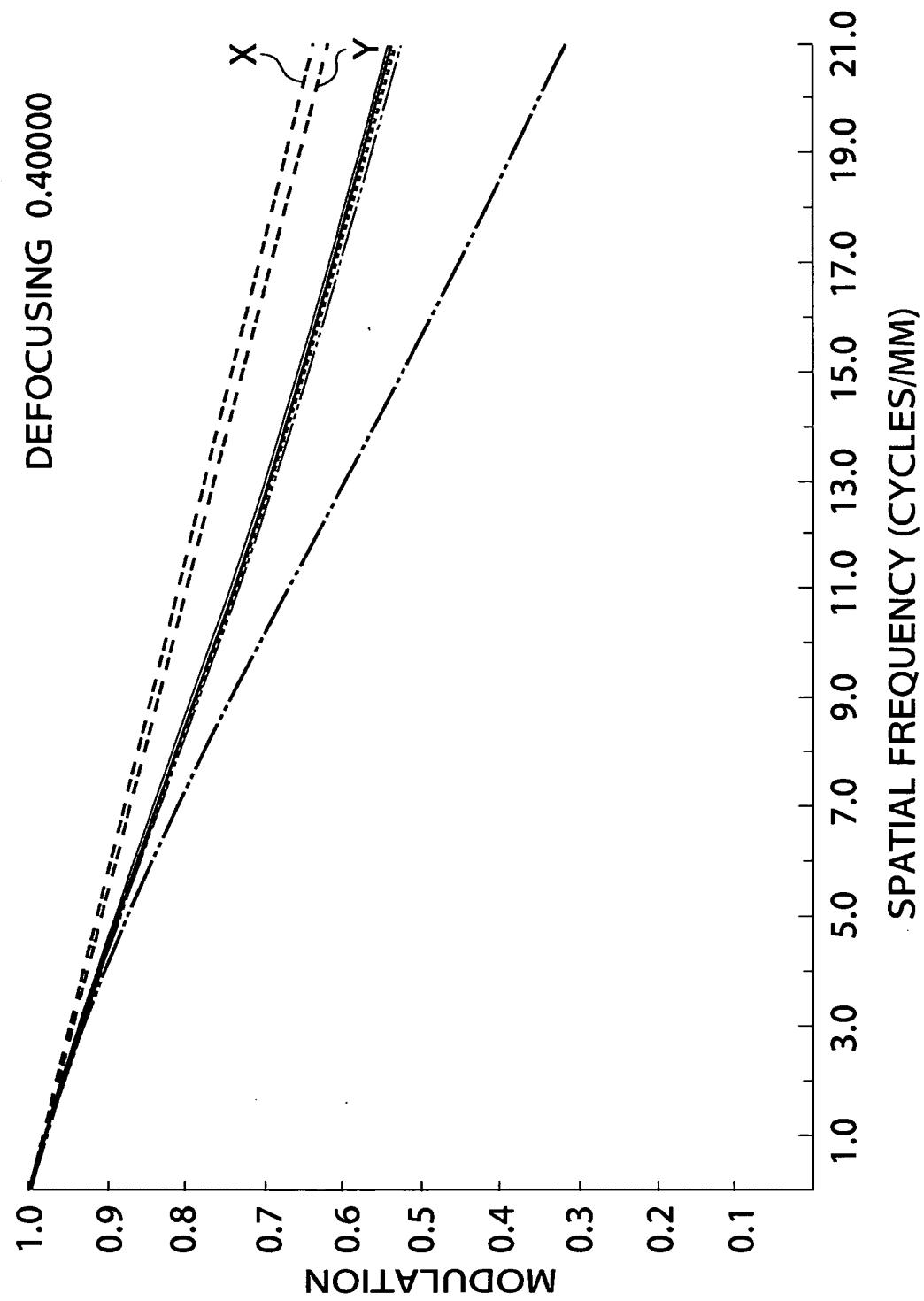
Fig. 12H

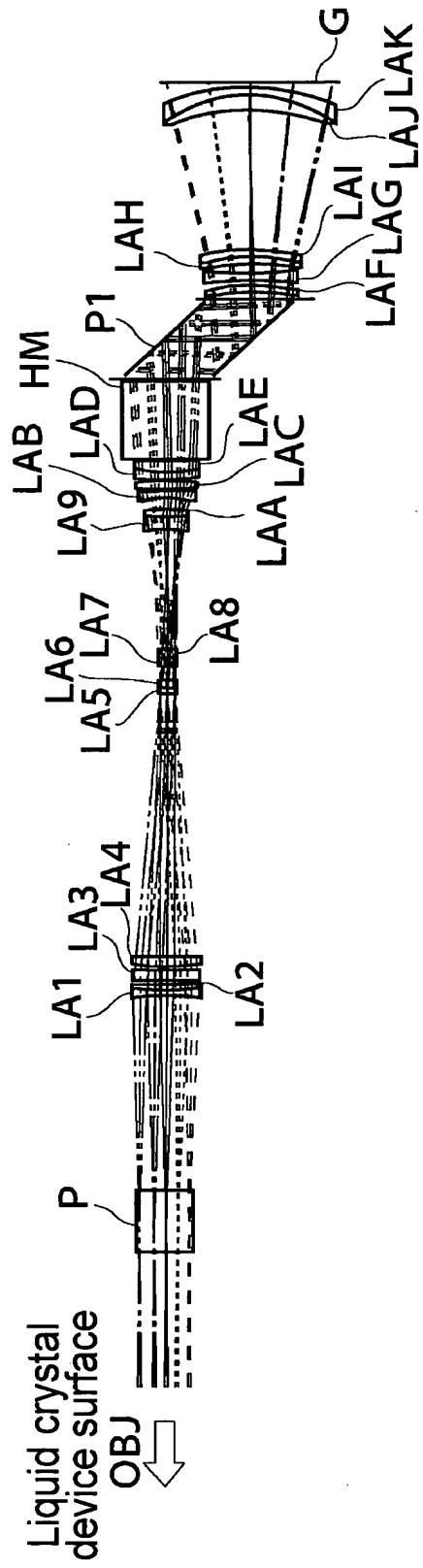
Fig. 13A

Fig. 13B

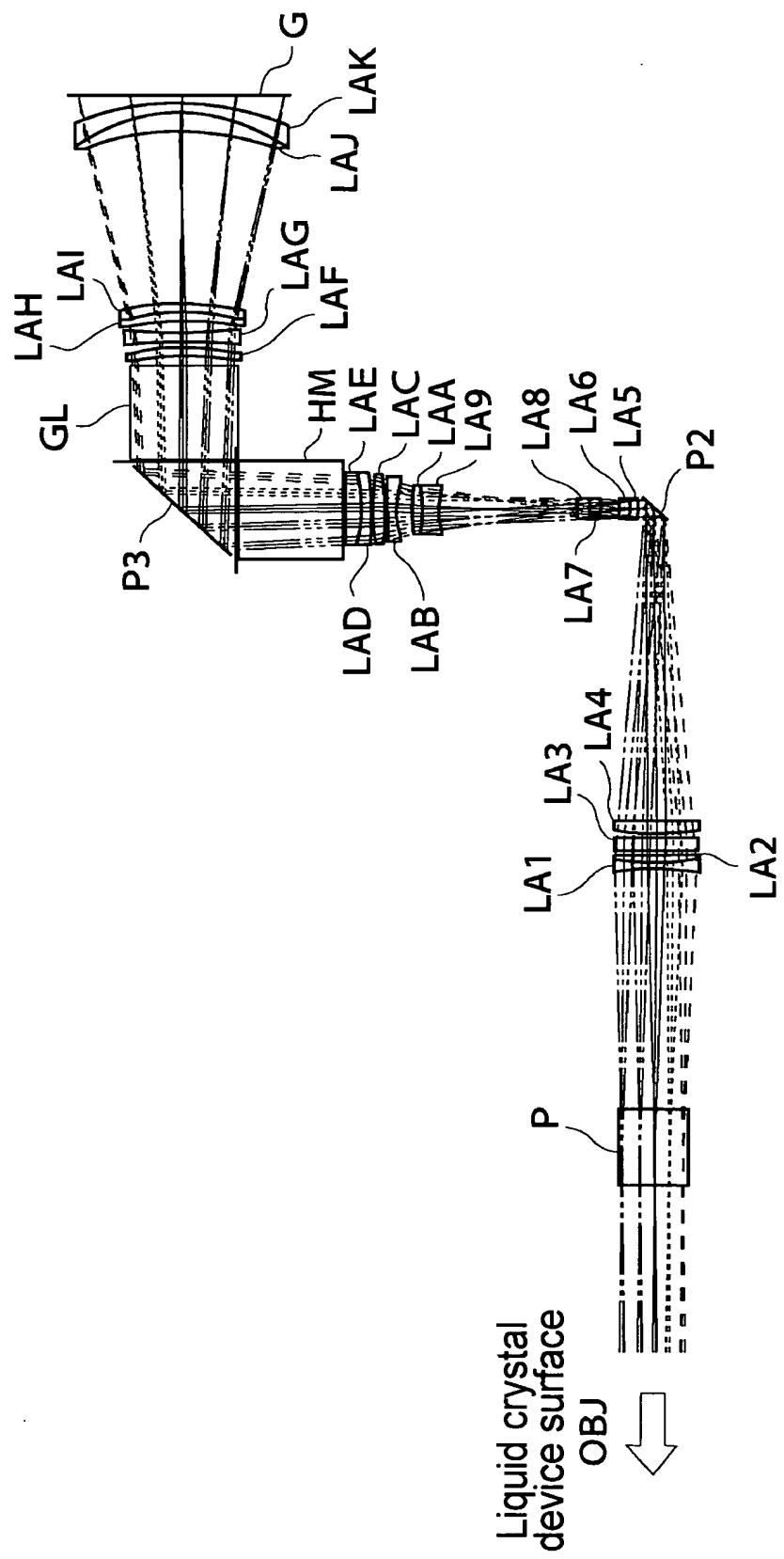


Fig. 13C

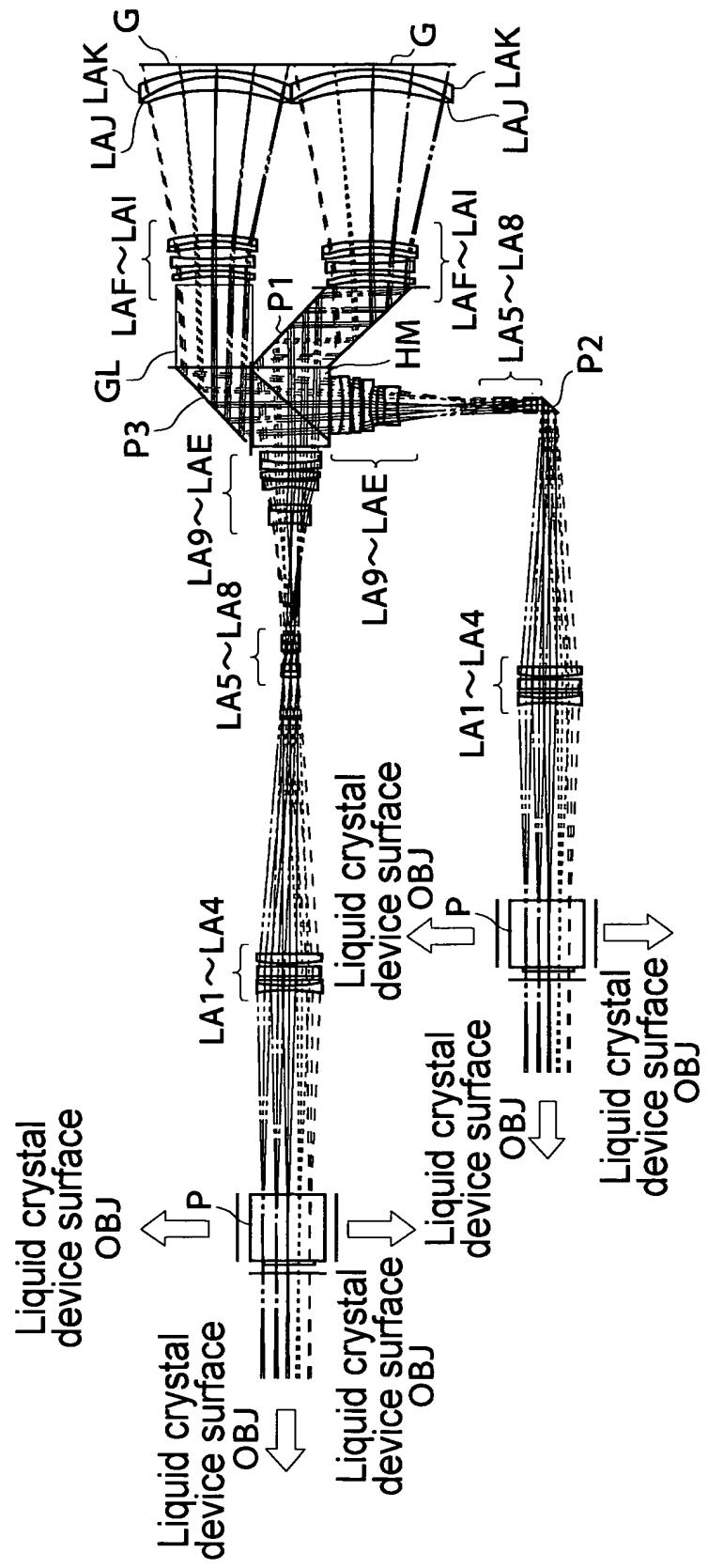


Fig. 13D

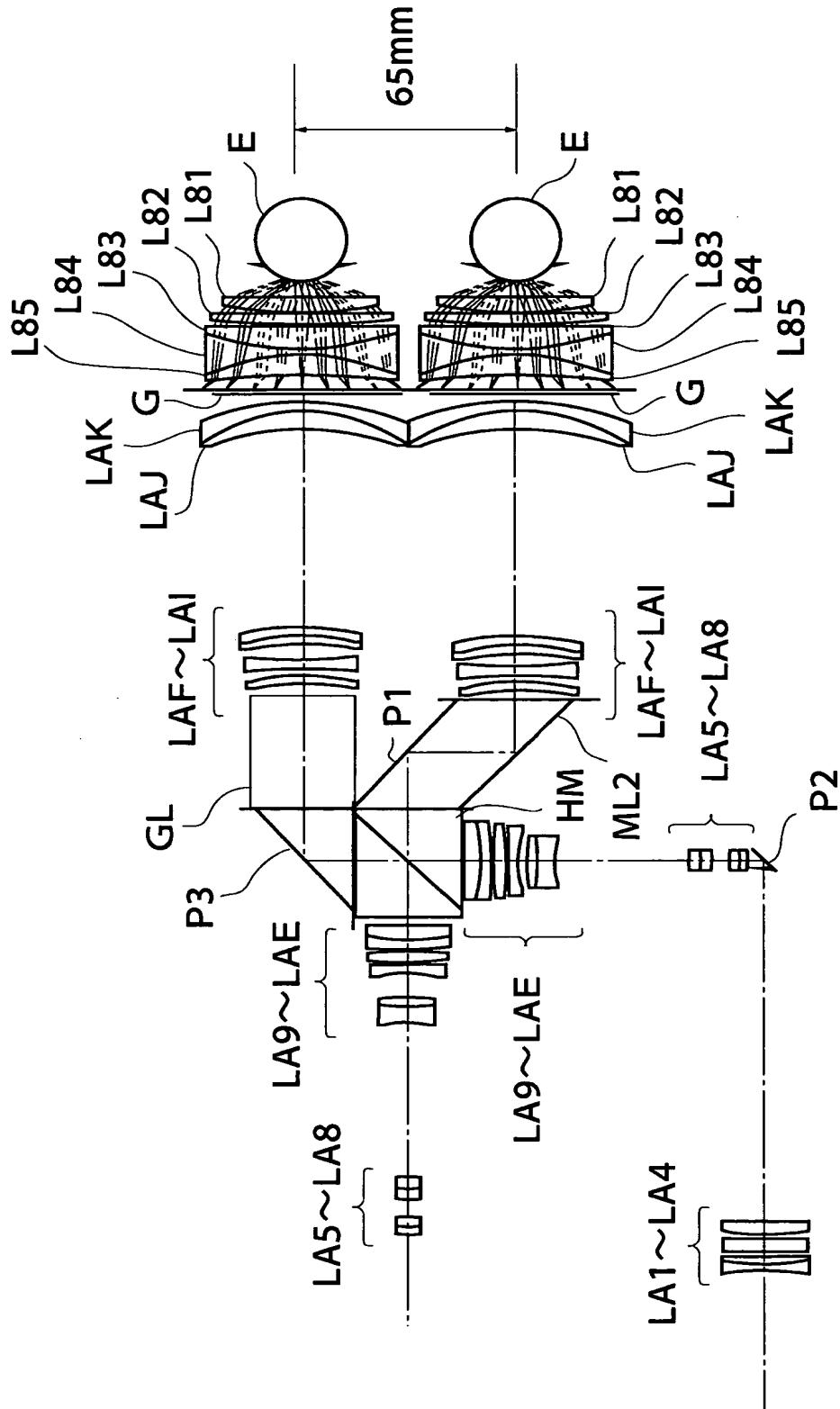


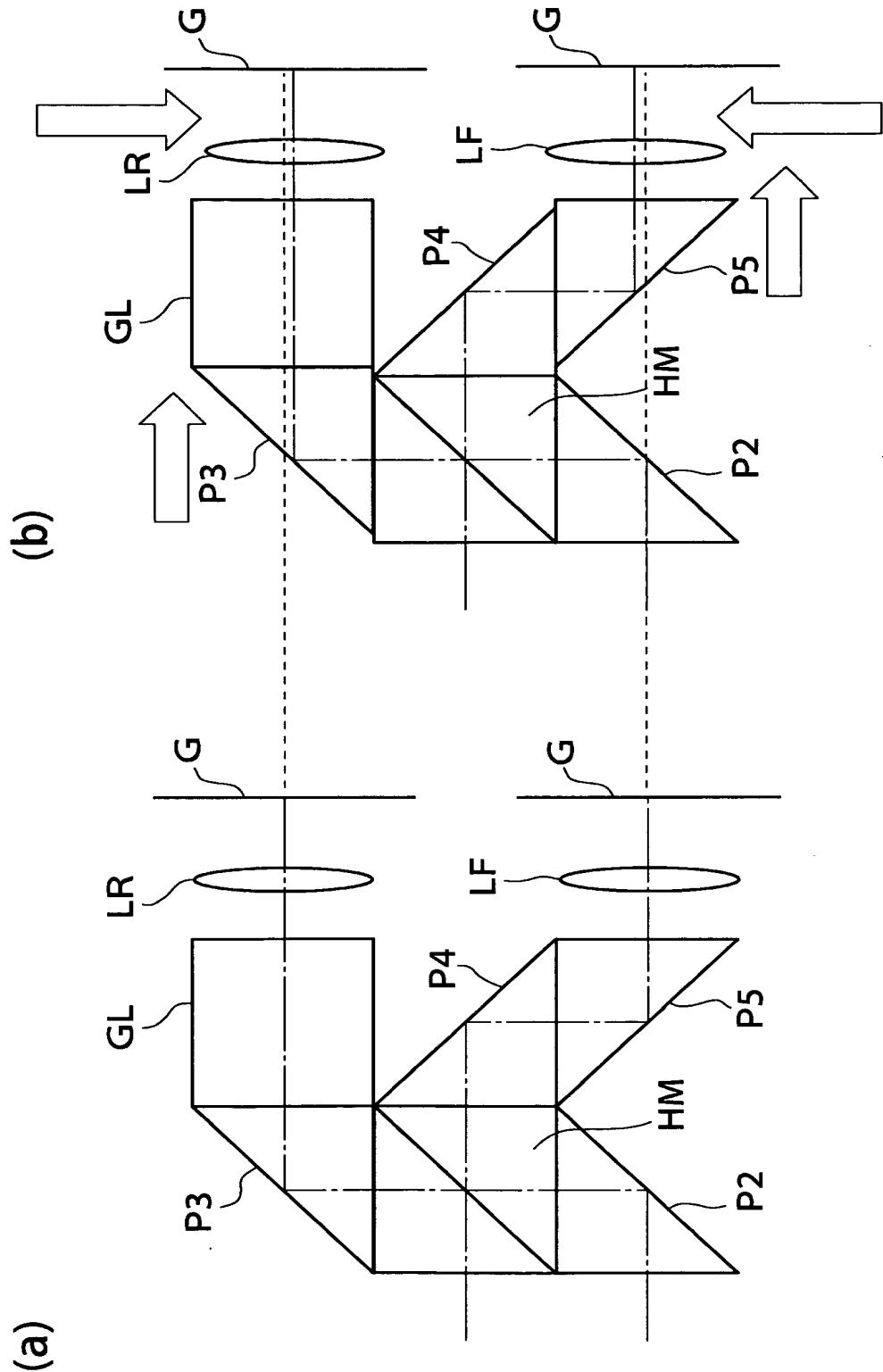
Fig. 13E

Fig. 14

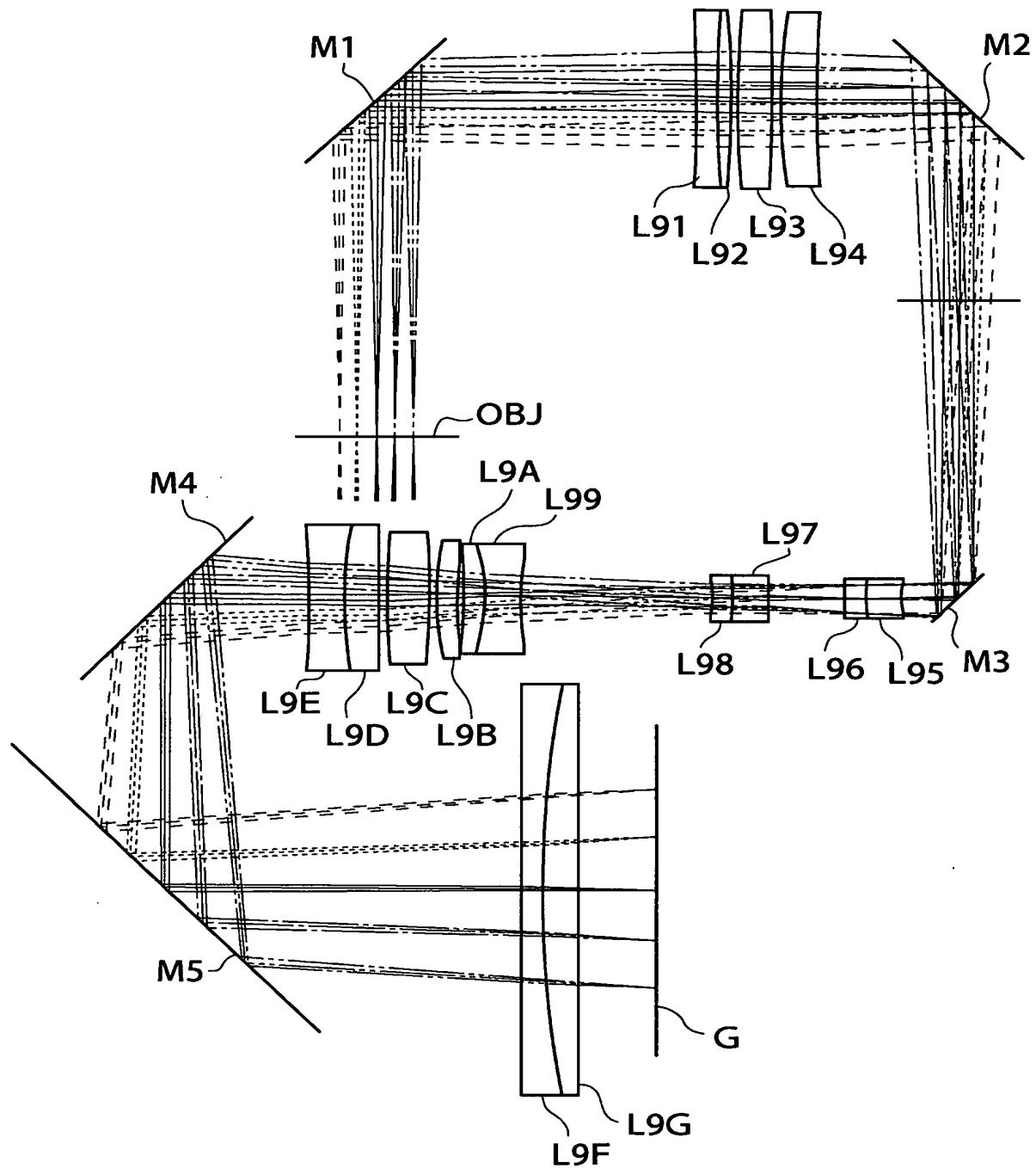


Fig. 15

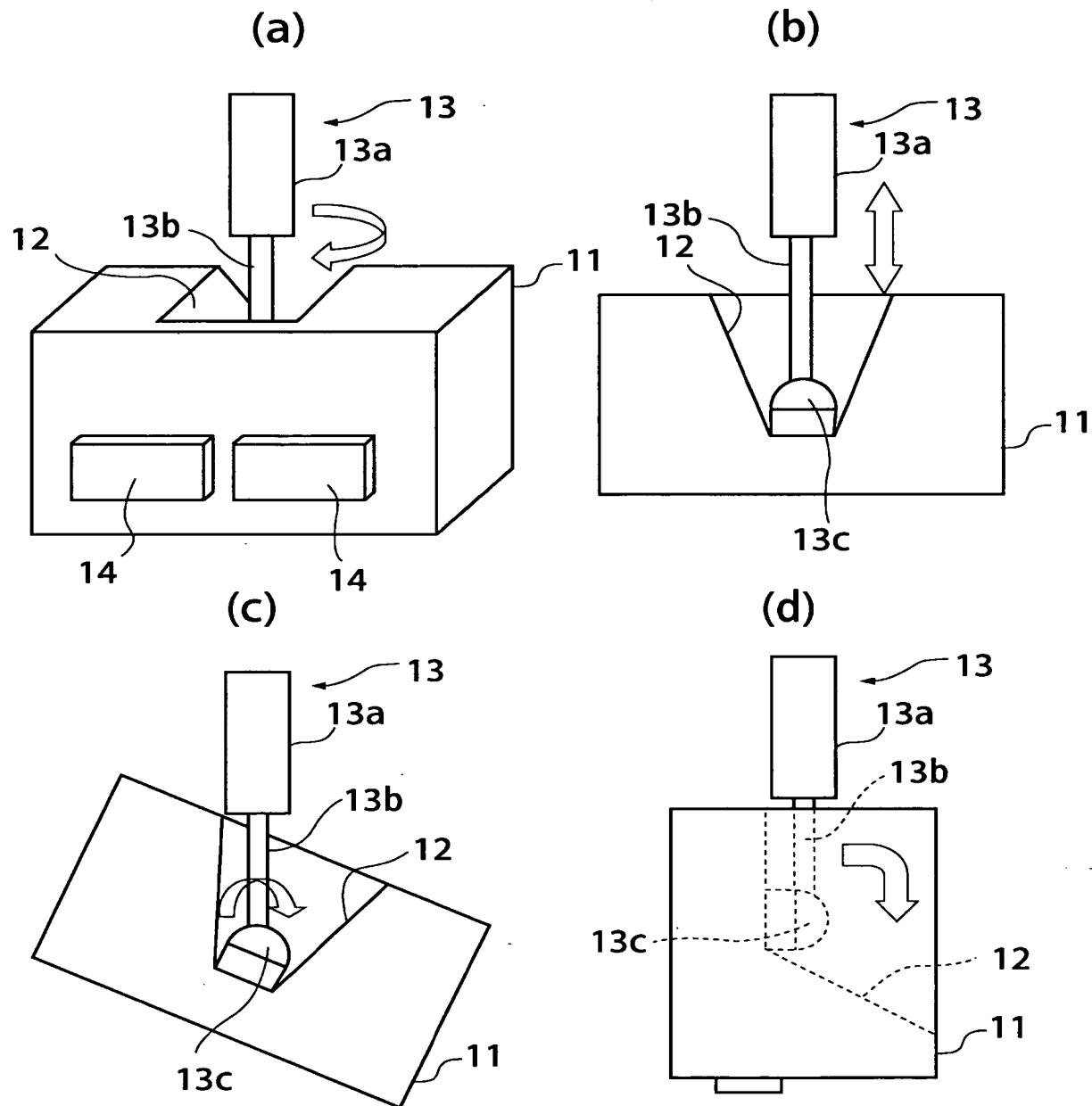


Fig. 16

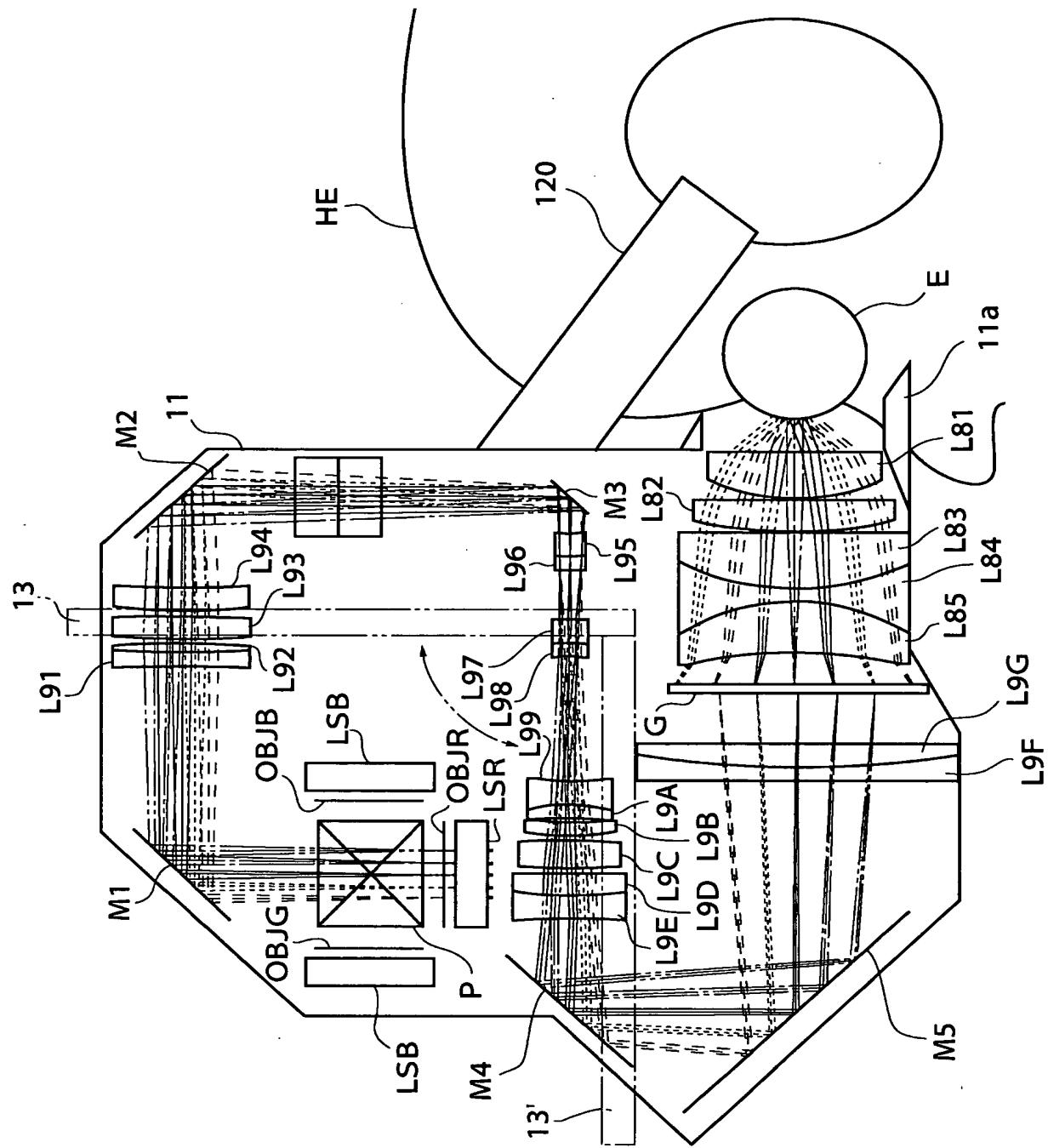


Fig. 17A

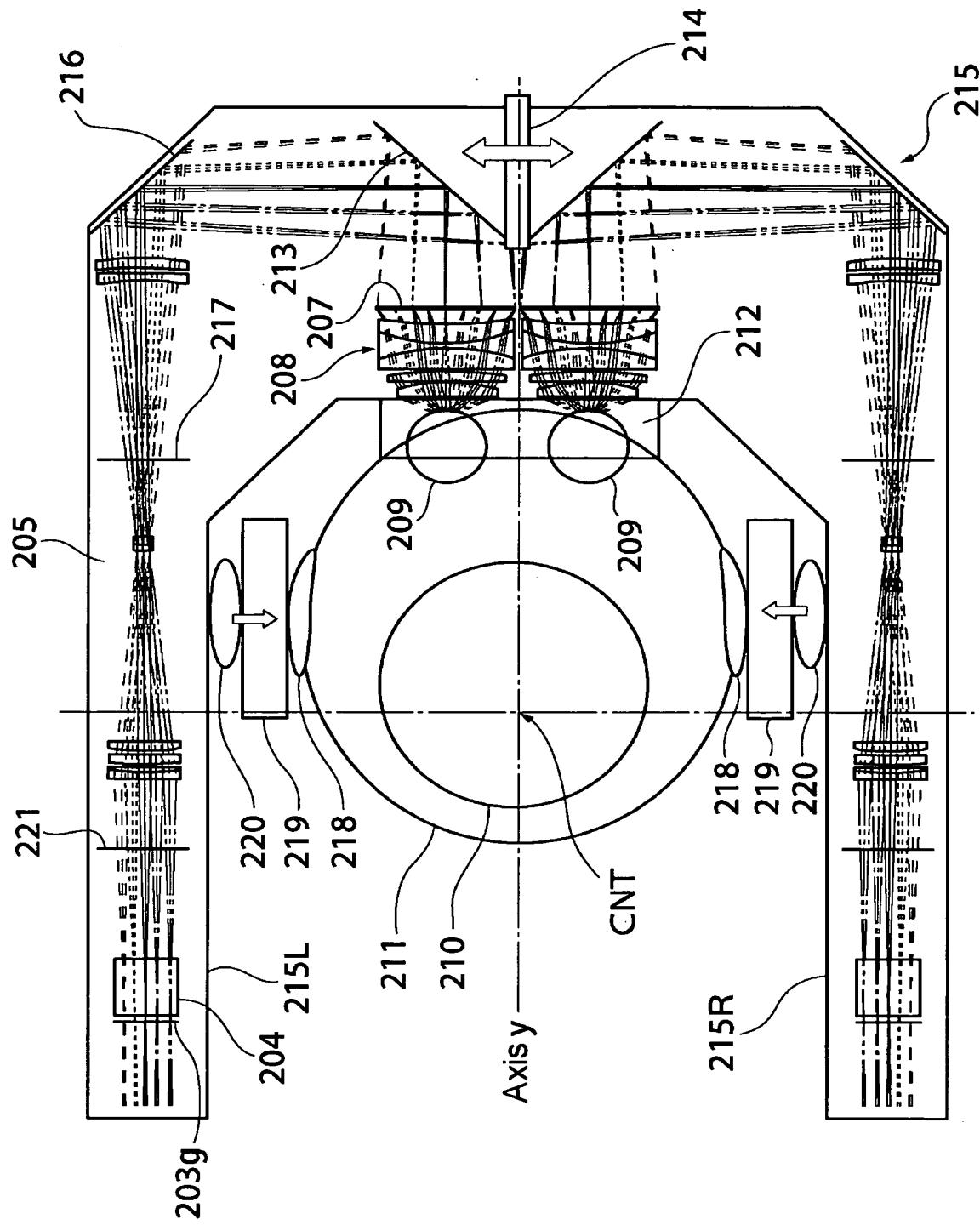


Fig. 17B

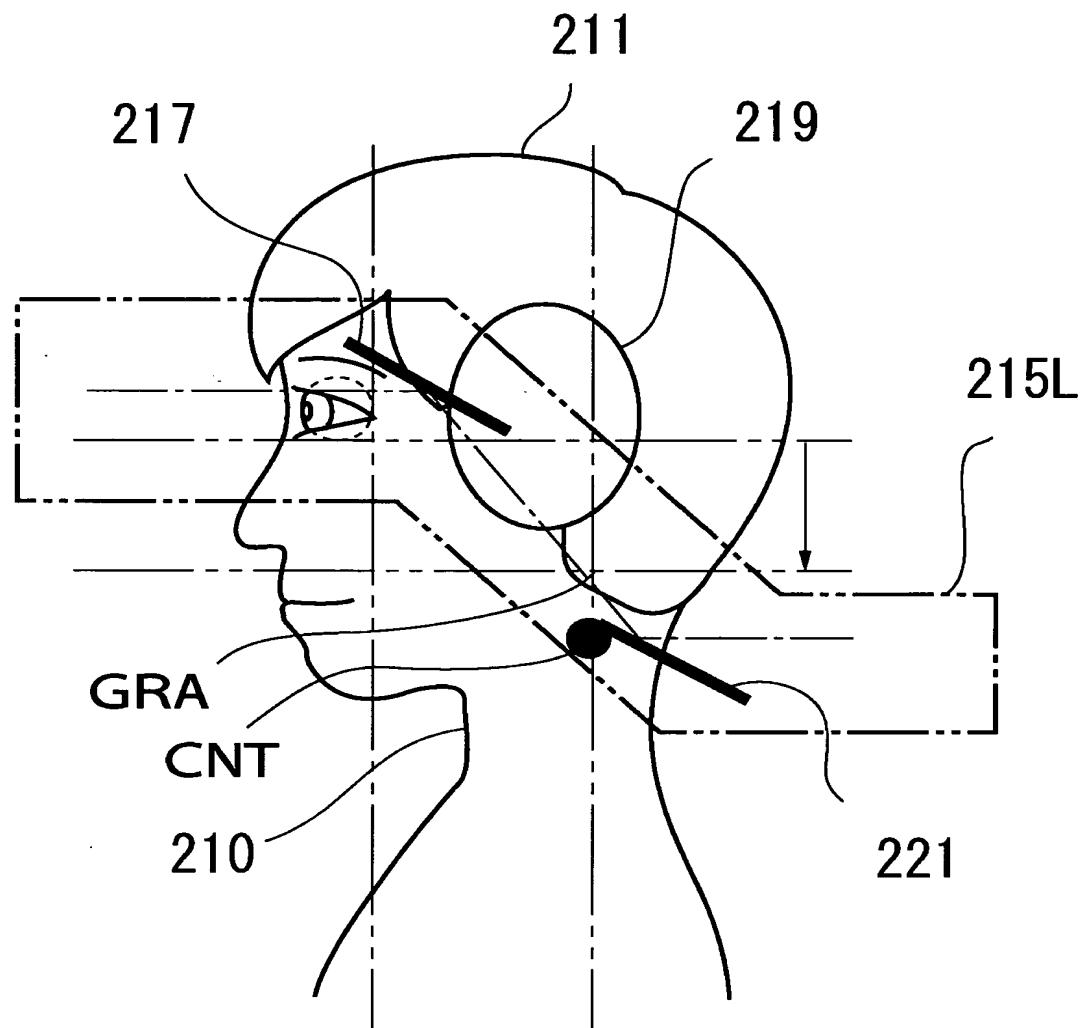


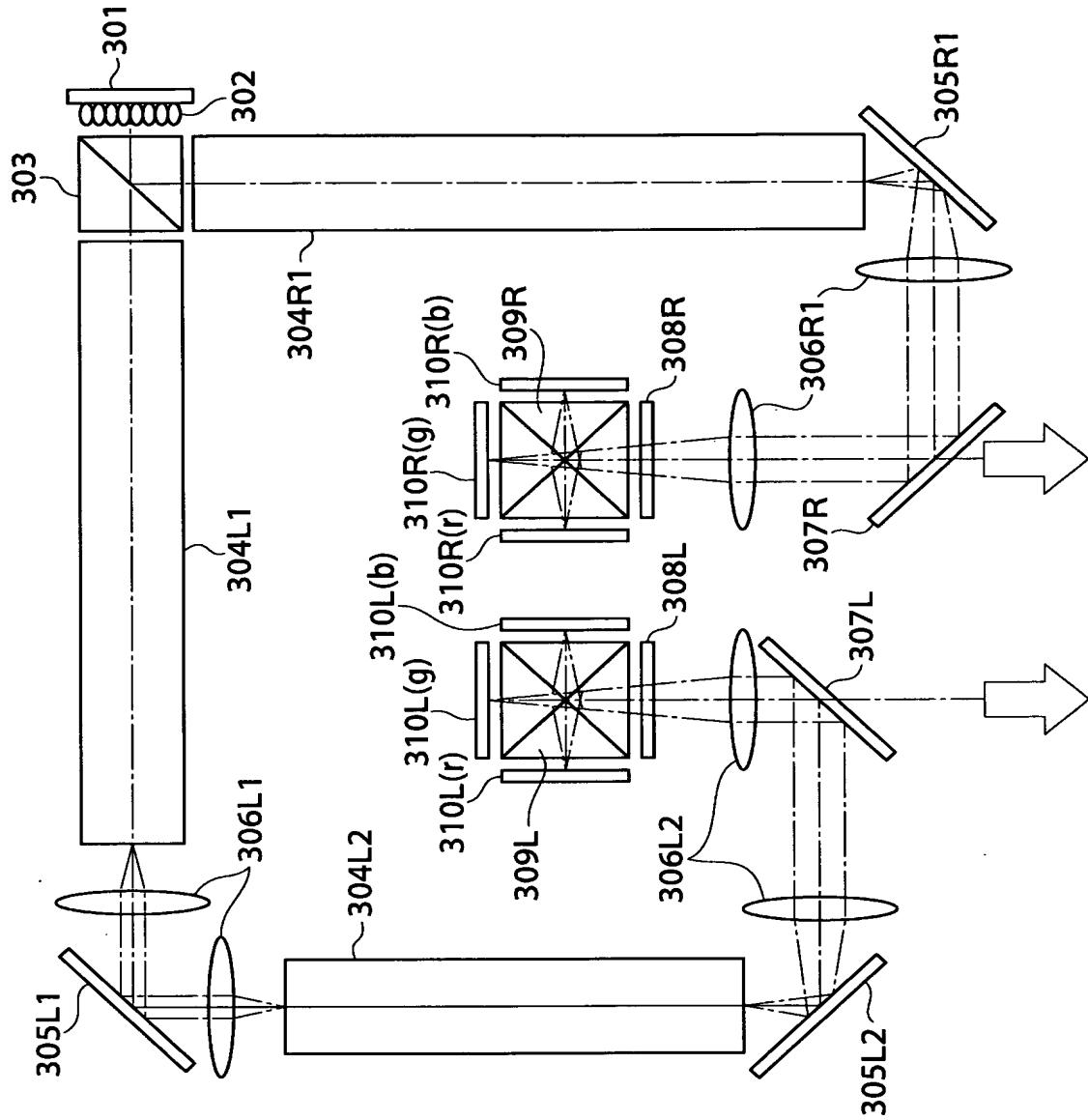
Fig. 18

Fig. 19

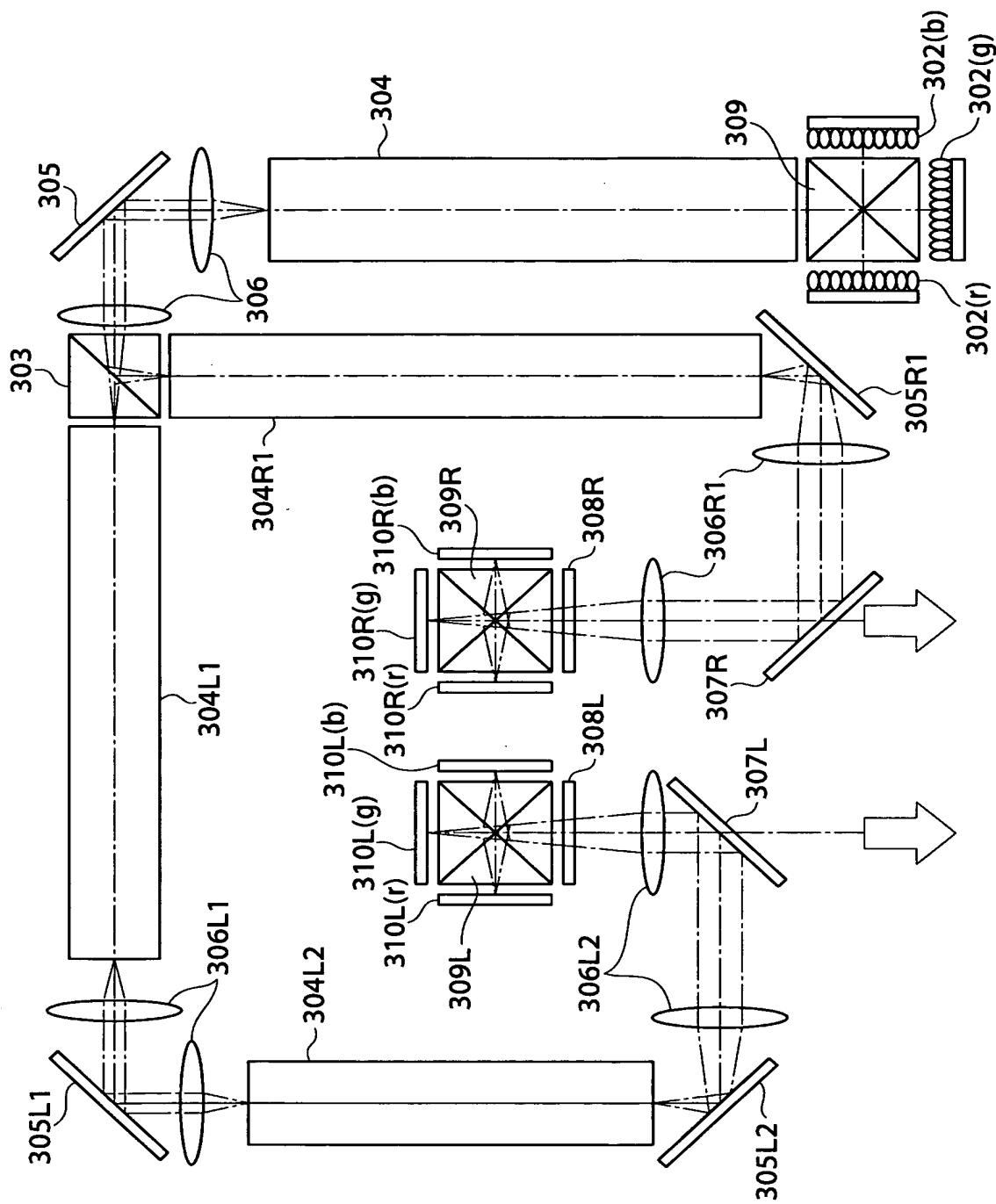


Fig. 20

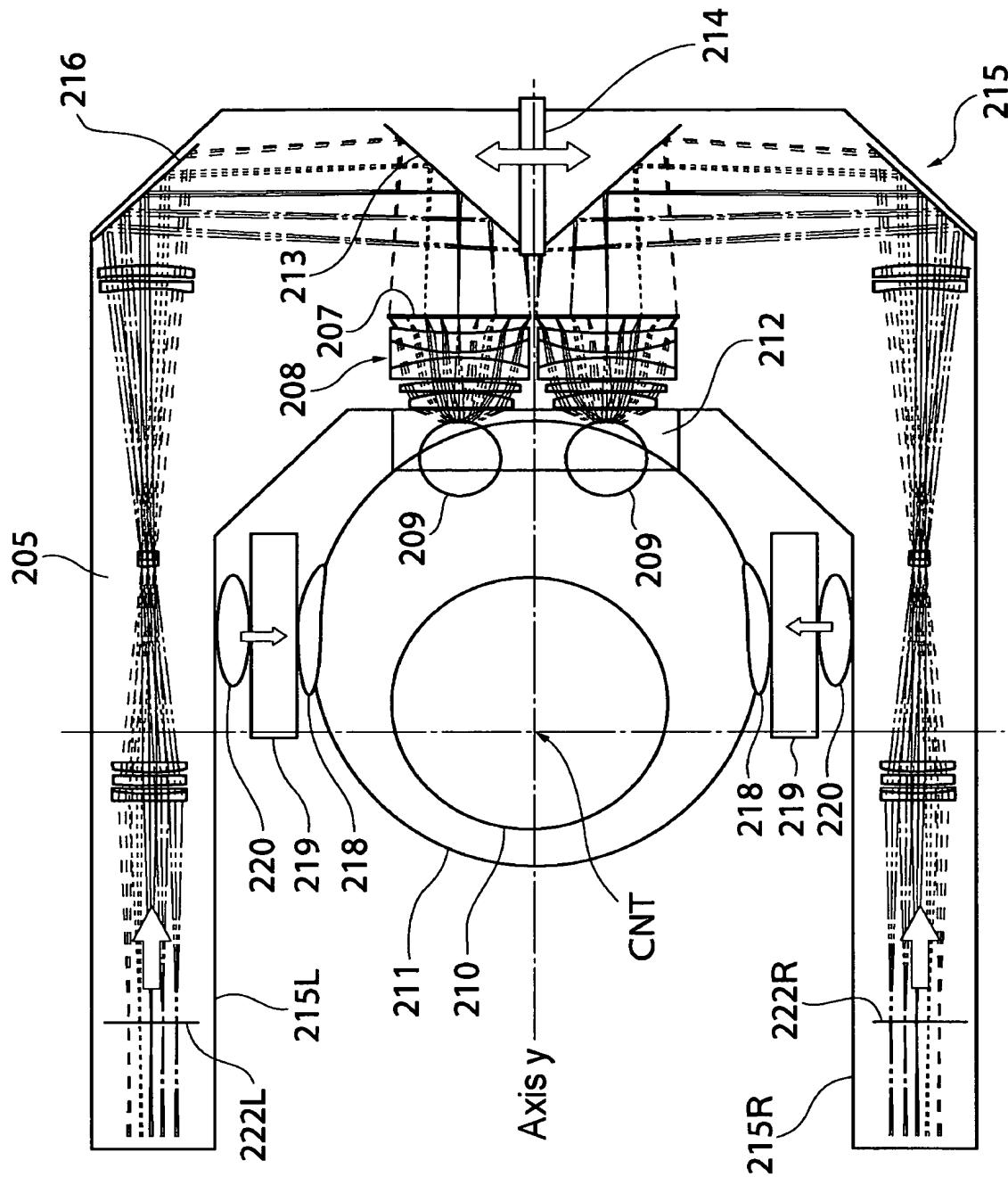


Fig. 21

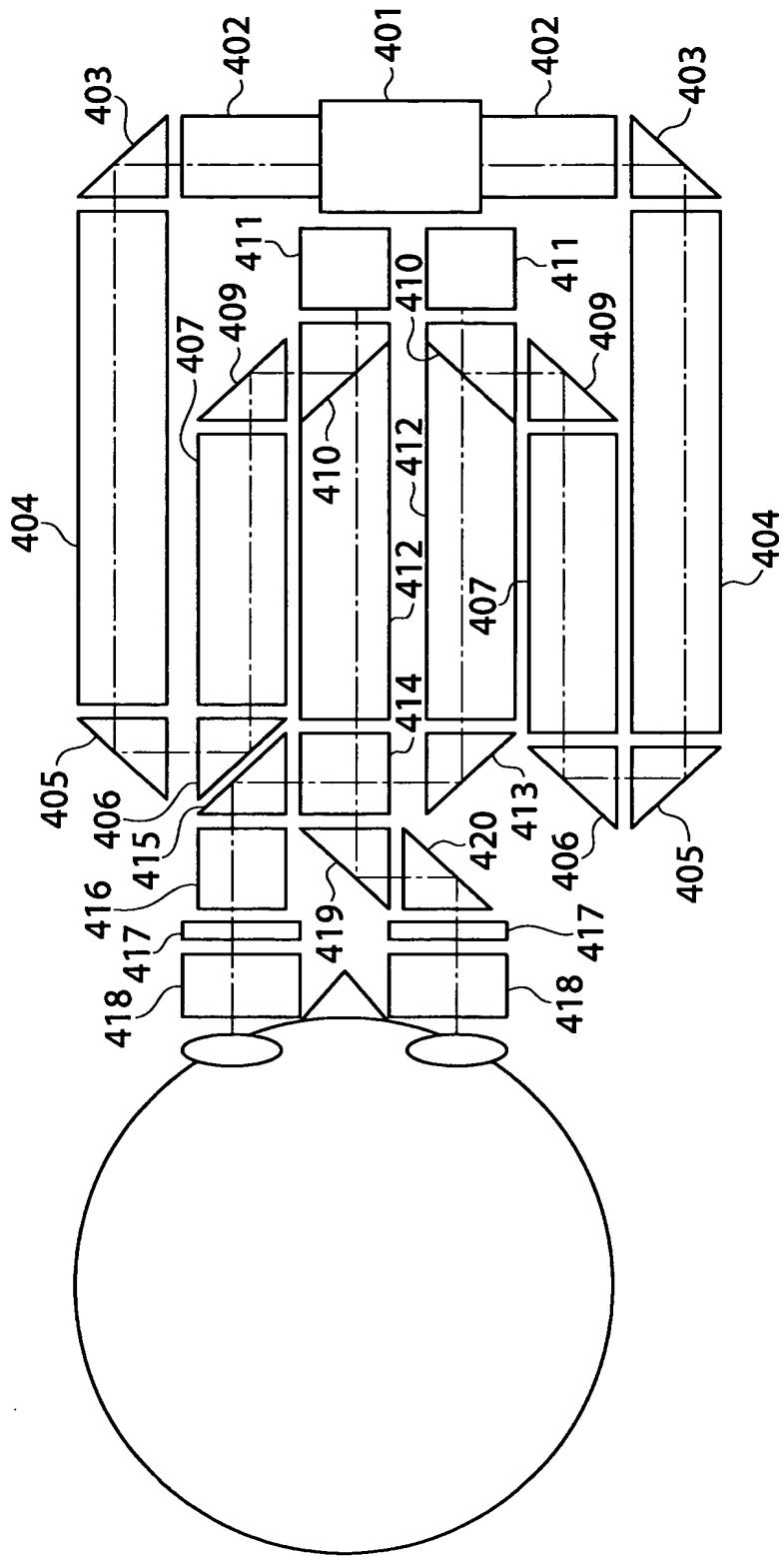


Fig. 22

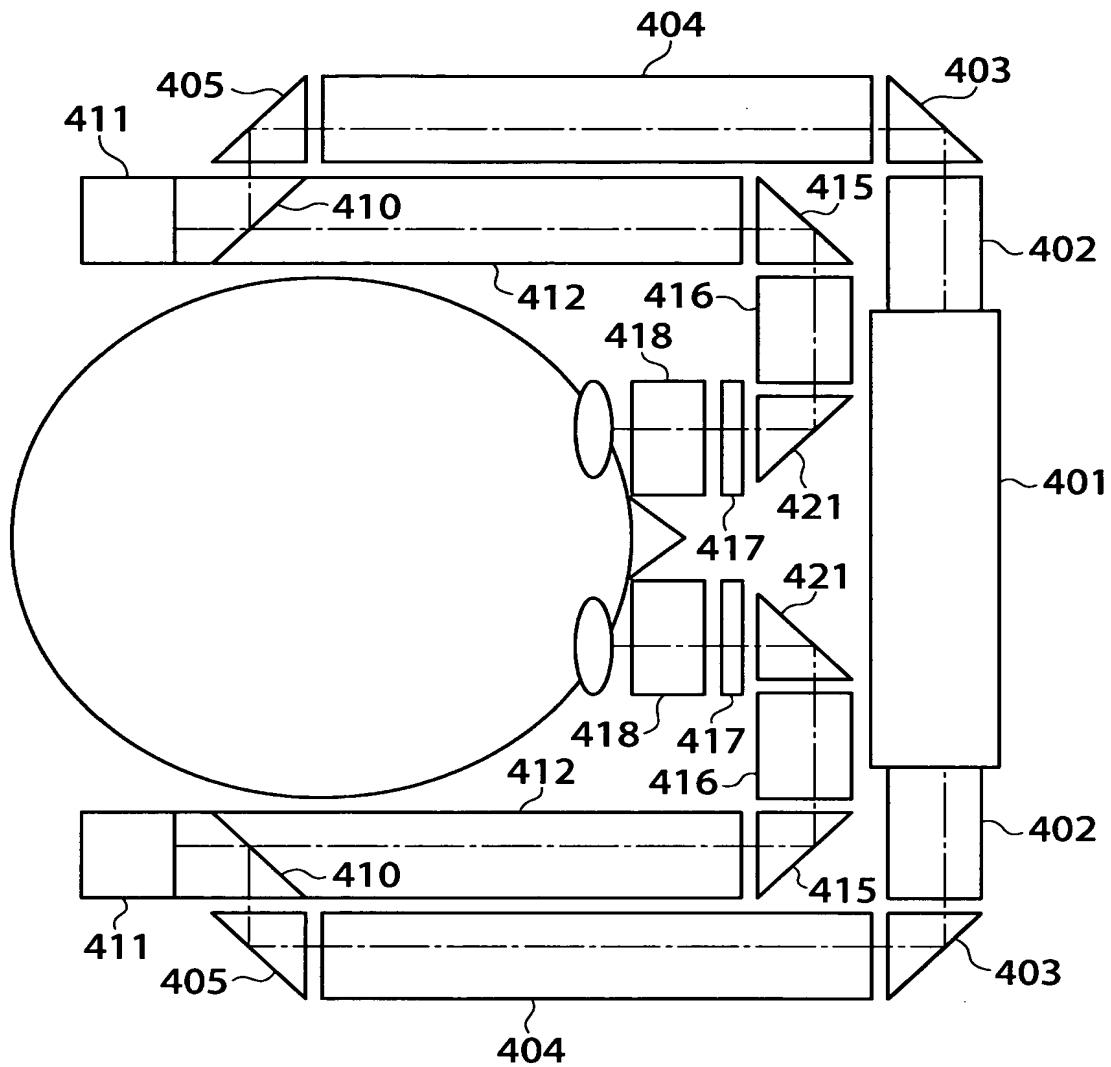


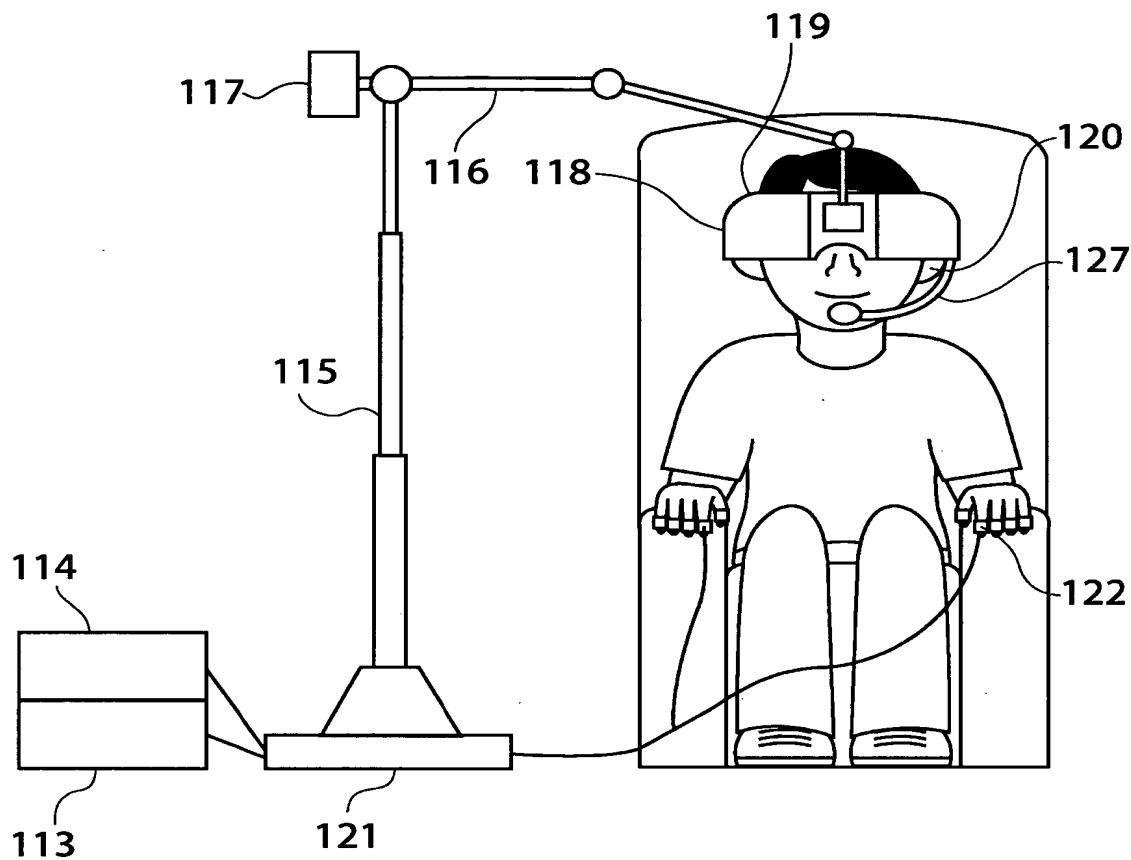
Fig. 23

Fig. 24

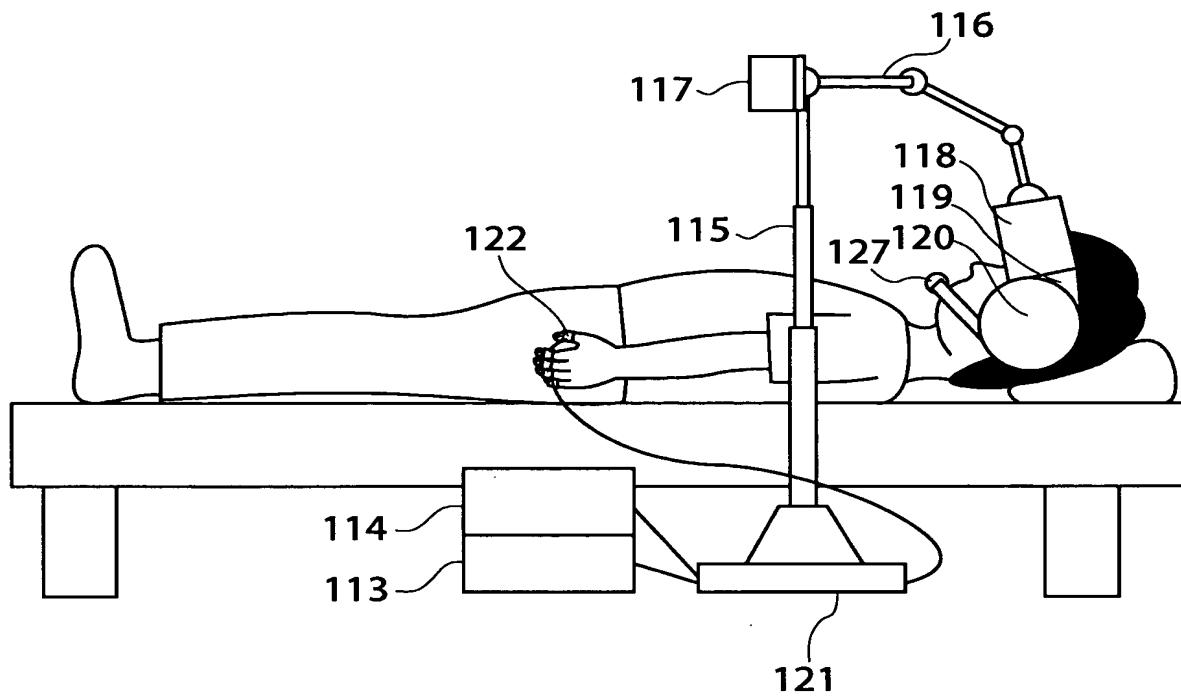


Fig. 25

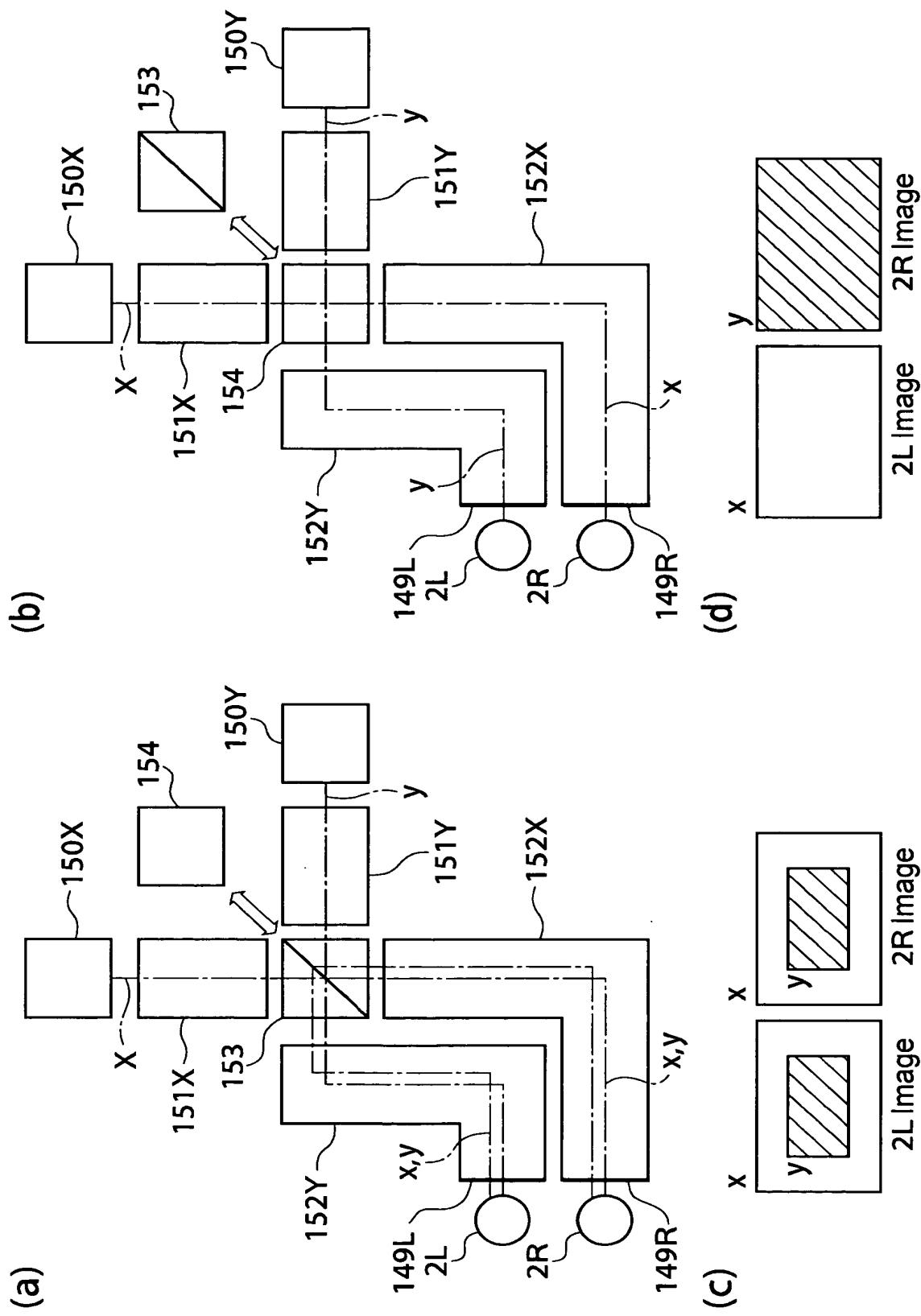


Fig. 26A

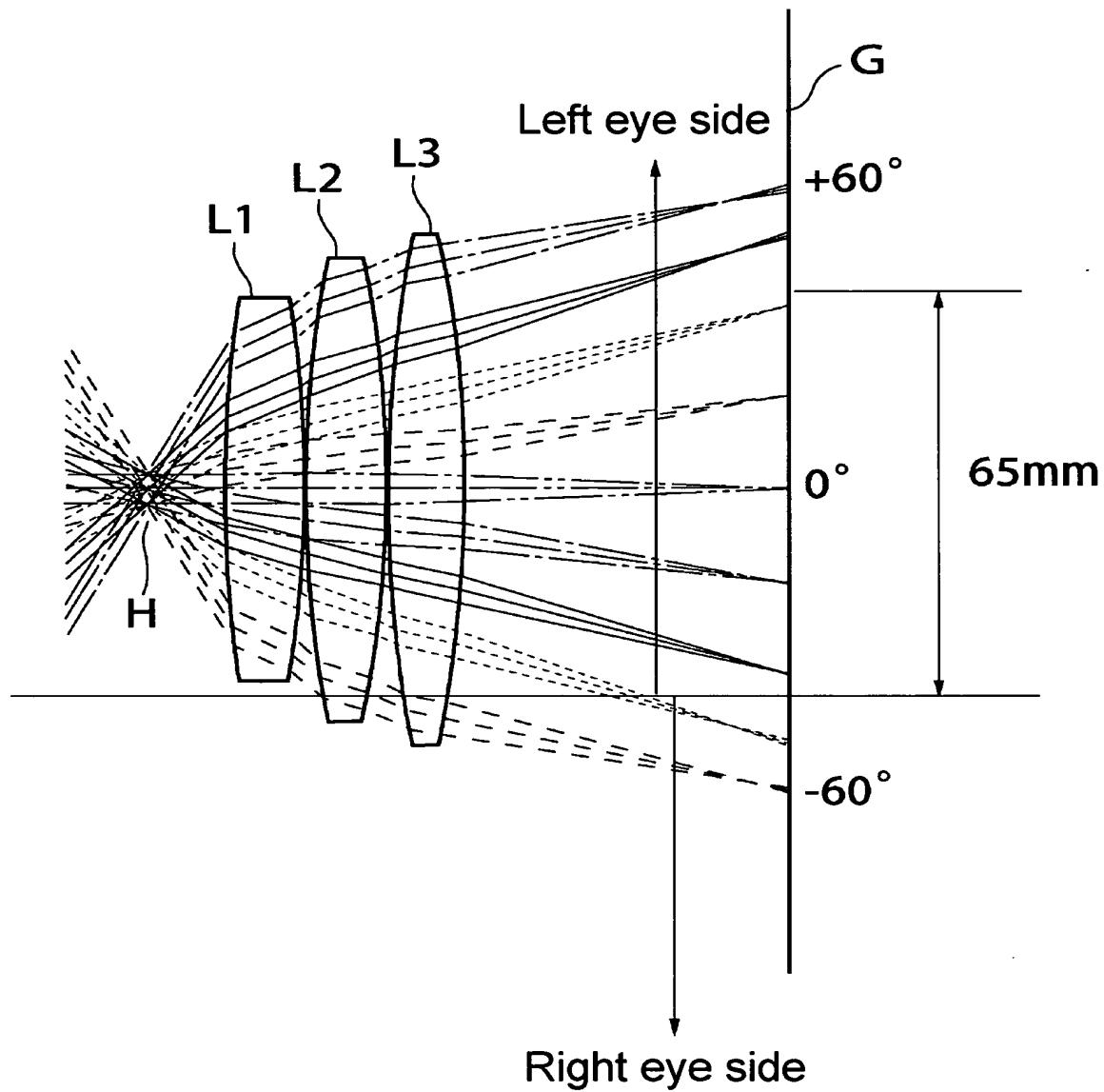


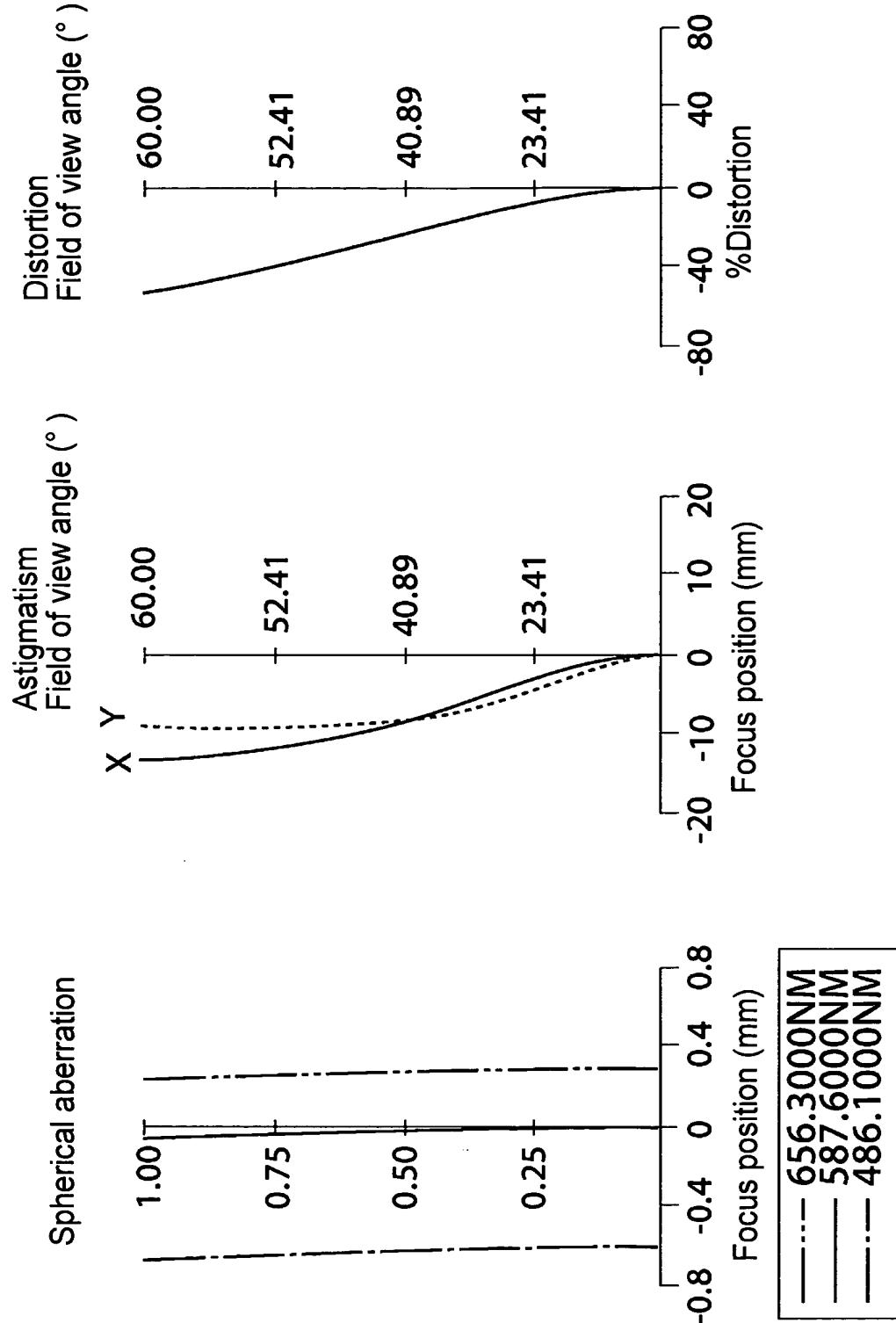
Fig. 26B

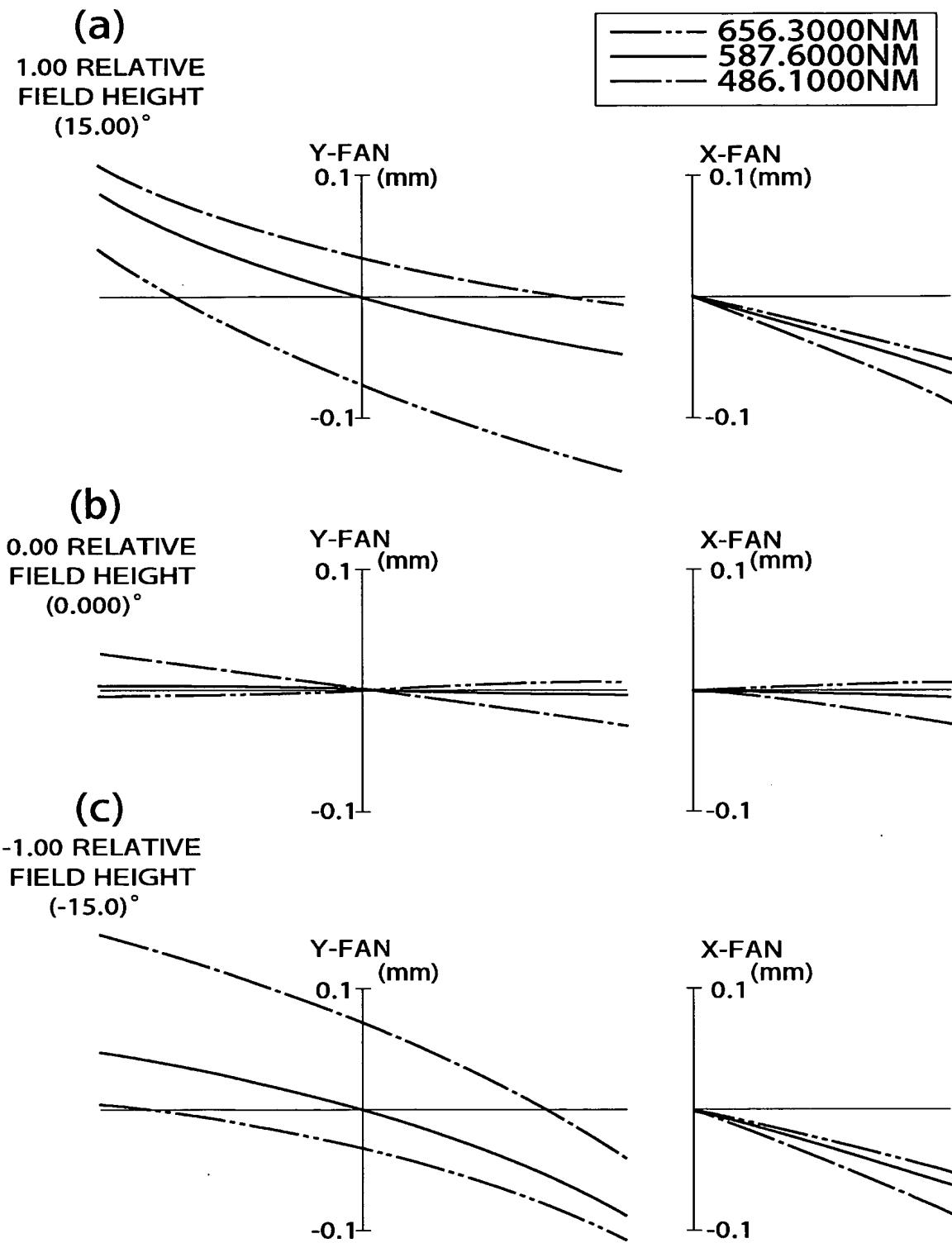
Fig. 26C

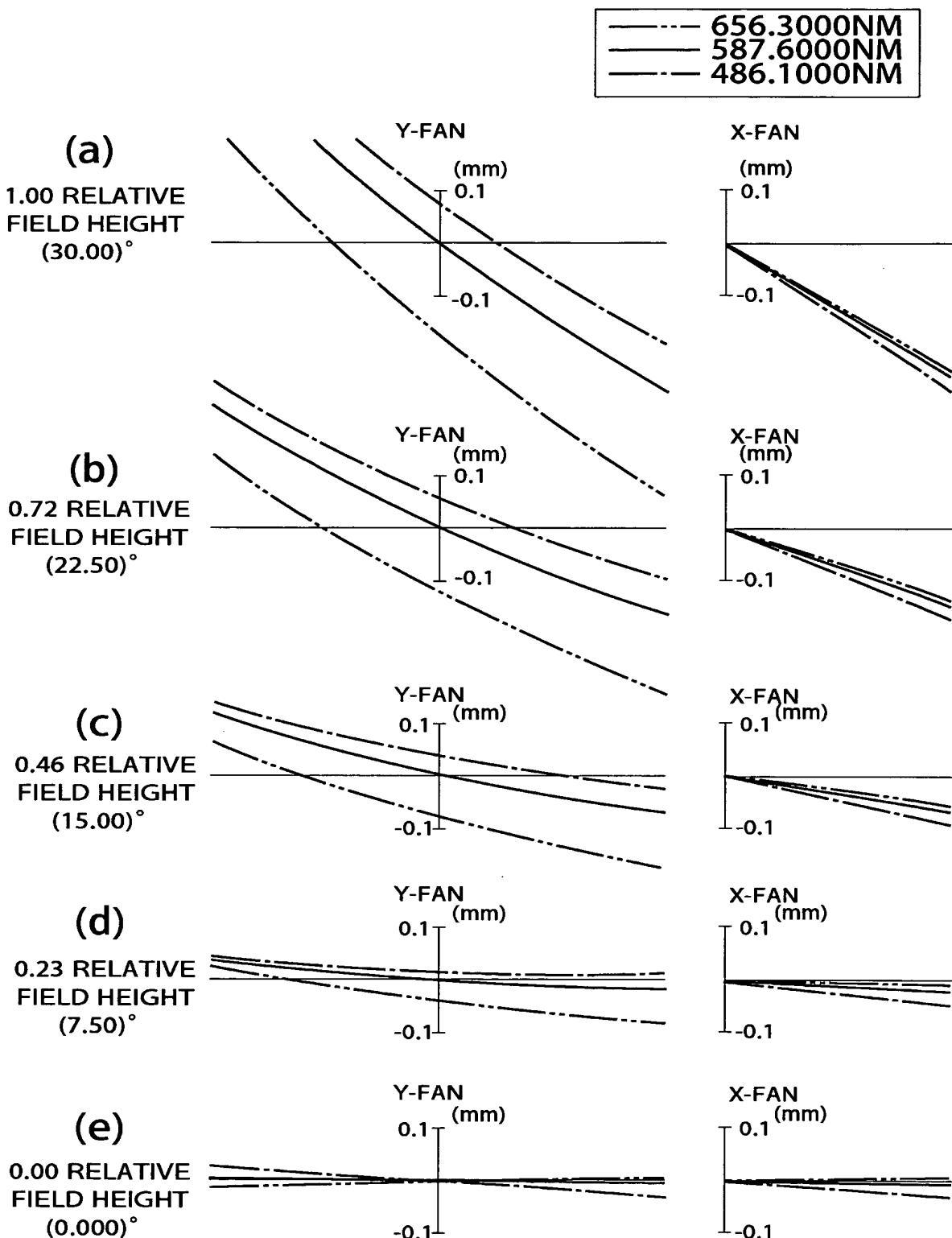
Fig. 26D

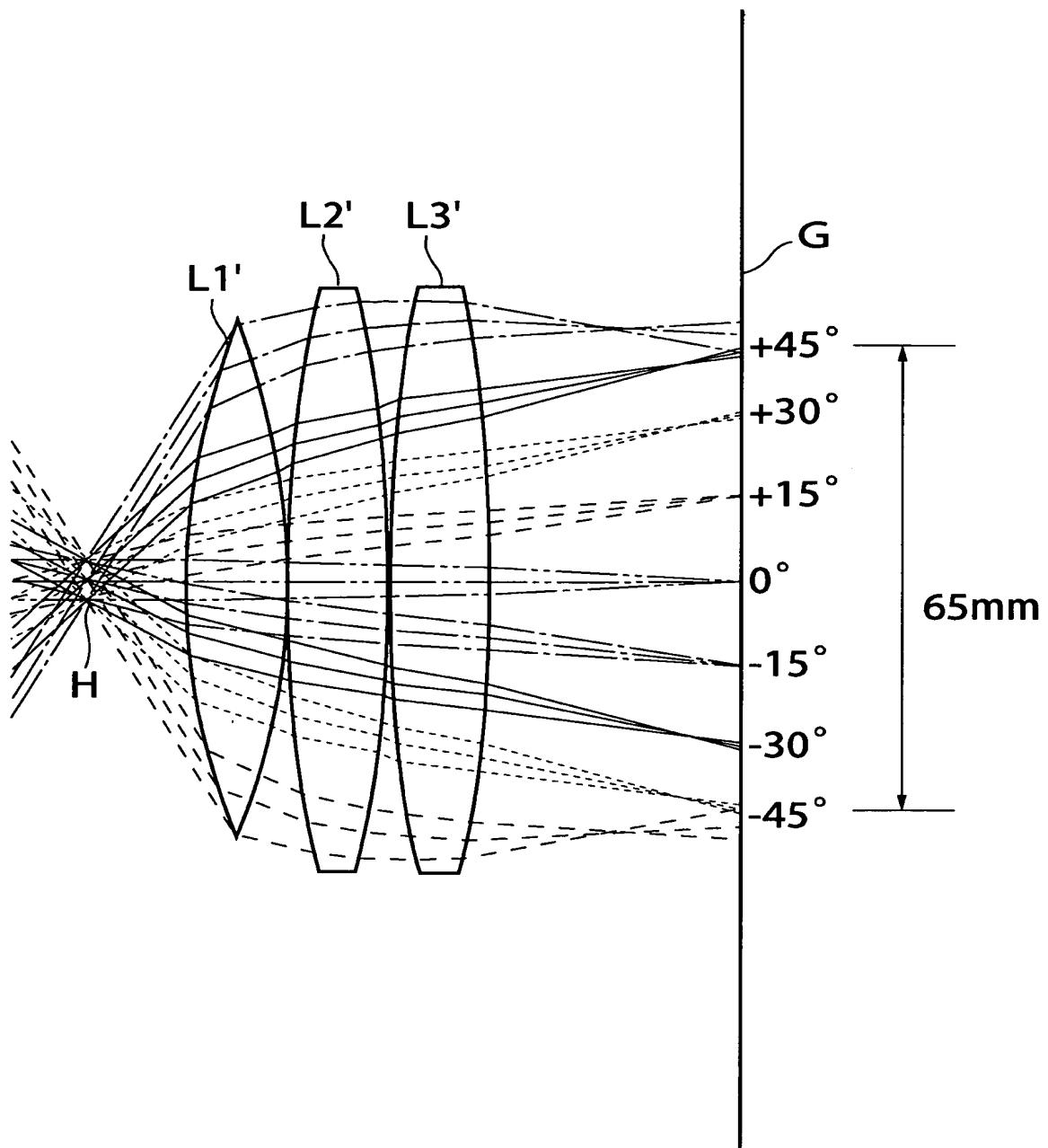
Fig. 27A

Fig. 27B

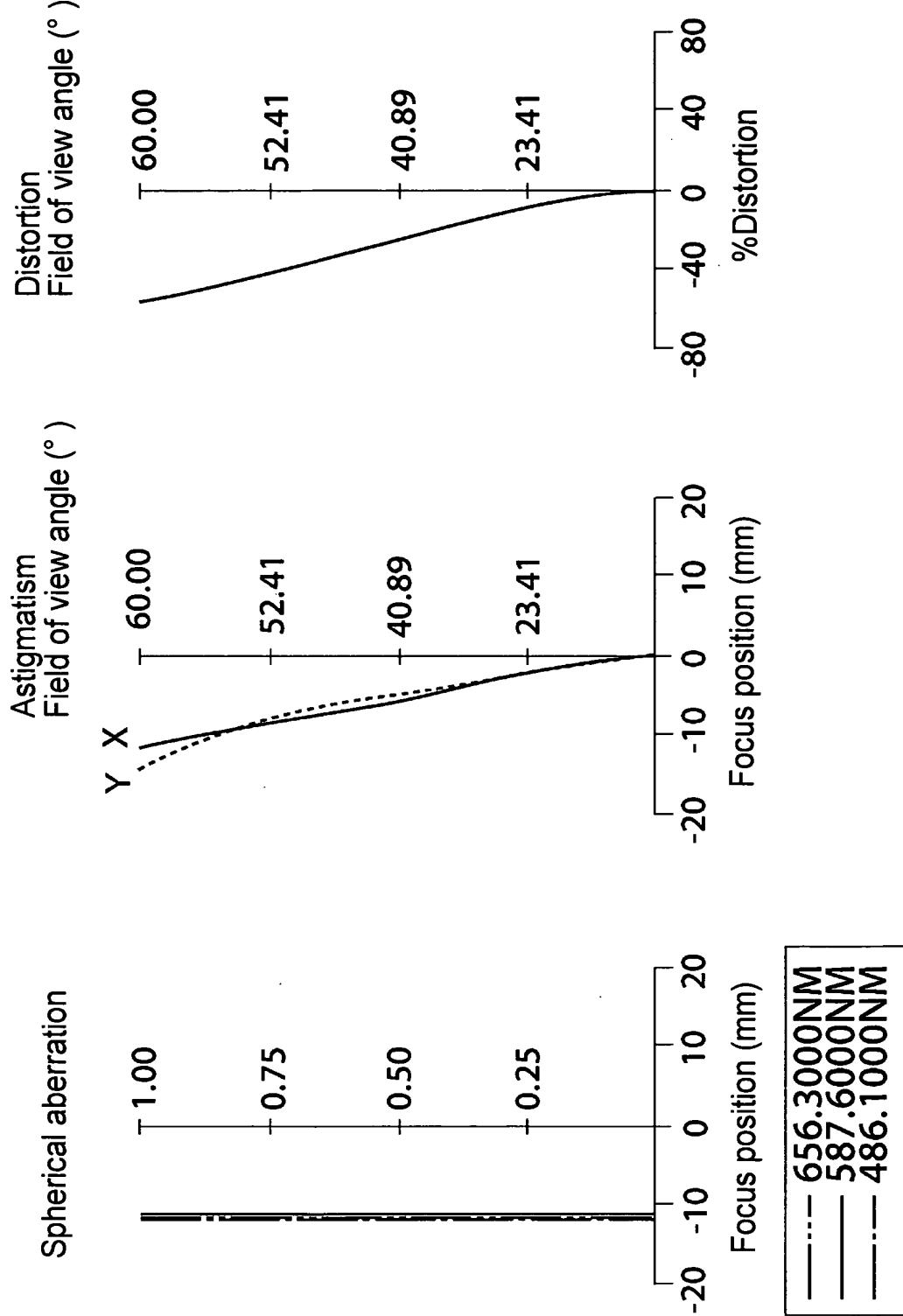


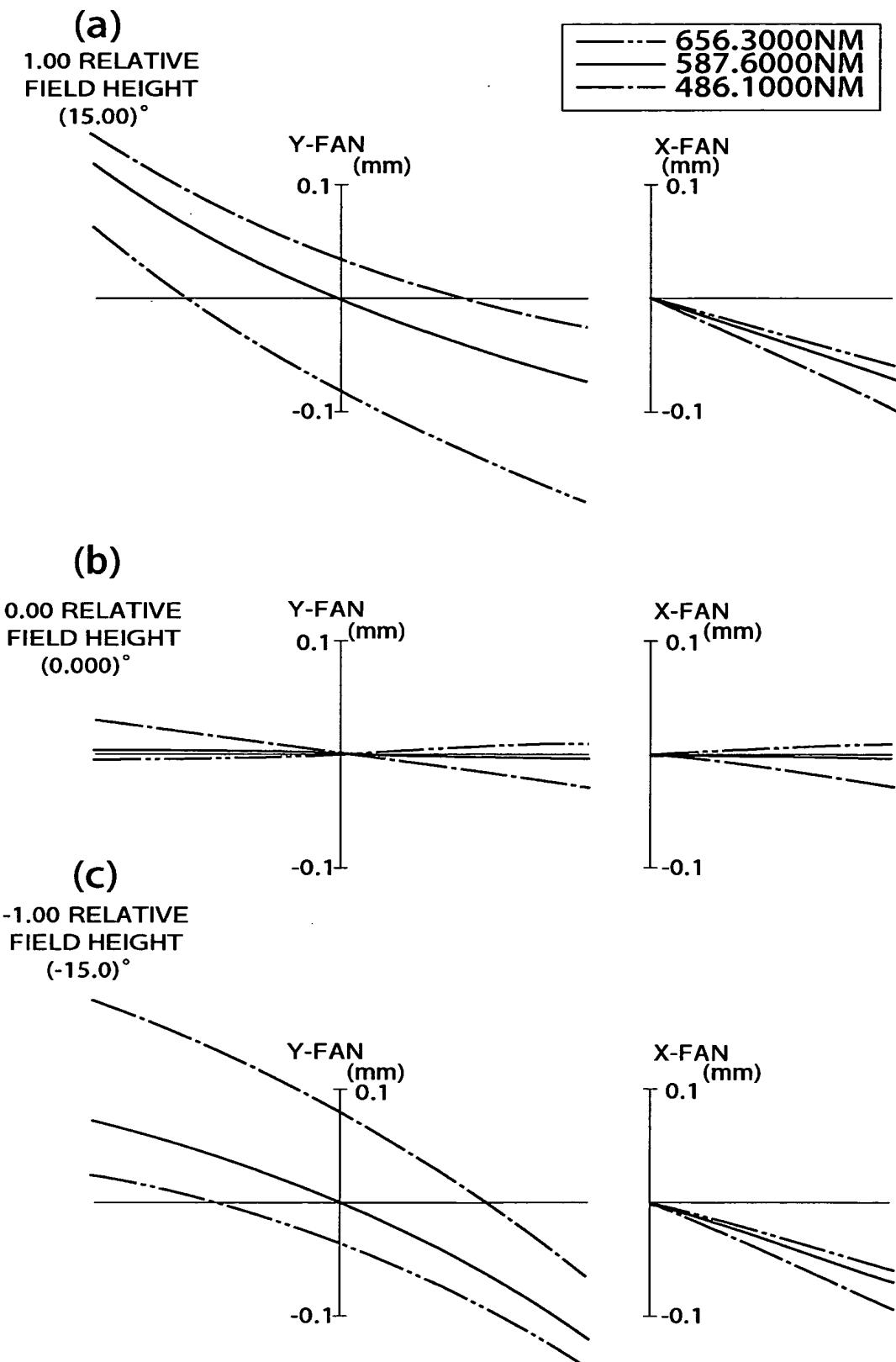
Fig. 27C

Fig. 28